DIGITAL MULTIMETER

- True RMS AC/DC voltage and current measurements
- 0.05% basic DC accuracy
- 40,000-count resolution
- Measures frequency, capacitance and temperature
- Diode check and continuity test
- Backlit LCD readout with analog bar graph
- 1000 V input protection on all ranges
- 4-20 mA process loop measurements with % readout
- Data hold, Max/Min recording mode
- Peak capture mode
- IP67 dust and waterproof
- EN61010-1 Cat. IV 600 V, Cat. III 1000 V safety rating
- Includes test leads and 9 V battery

SPECIFICATIONS:

AC/DC Voltage Range:	1000 V
Accuracy:	AC: ± 1.0 %; DC: ± 0.05 %
AC/DC Current Range:	10 A
Accuracy:	AC: ± 1.5 %; DC: ± 1.0 %
Resistance Range:	40 MΩ
Accuracy:	± 0.3 %
Frequency Range:	10 MHz
Accuracy:	± 0.1 %
Capacitance Range:	40 mF
Accuracy:	± 3.5 %
Duty Cycle Range:	99.9 %
Accuracy:	± 1.2 %
Temperature Range:	760 °C (1400 °F)
Accuracy:	± 1.0 %
Dimensions:	182 x 82 x 55 mm
Weight:	360 g

REED

Model No.	Mfg. No.	Description	Price/Each
XC308	ST-9919	Digital Multimeter	139.00

DIGITAL MULTIMETER

- Tough and compact
- Designed for the contracting electrician
- 4000-count LCD display with backlight
- Auto and manual ranging
- Data Hold and Relative functions
- Diode check and continuity functions
- Includes test leads and protective holster
- AC/DC Current Range: 10 A
- AC/DC Voltage Range: 600 V
- Resistance Range: 40 MΩ
- Capacitance Range: 200 µF
- Frequency Range: 9.999 MHz
- Temperature Range: 760 °F/400 °C

REED

Model No.	Mfg. No.	Description	Price/Each
HX505	ST-202	AC/DC Multimeter w/ Temperature	79.00

Can't find what you're looking for?
Call us today!

DIGITAL MULTIMETER

REED

IA197   IA198   IA199

Model No.	IA197	IA198	IA199
Display counts	4000	4000	4000
True RMS measurements			•
Frequency			•
Capacitance			•
Temperature		•	•
Relative zero	•	•	•
Data hold	•	•	•
Max/Min recording			•
Peak recording			•
Auto ranging	•	•	•
Auto power off	•	•	•
Cat. IV 600 V, Cat. III 1000 V	•	•	•
Test leads & 9 V battery	•	•	•
K-type temperature probe		•	•

Function	Range	Accuracy	IA197	IA198	IA199
AC Voltage	1000 V	± 0.8 %	•	•	•
DC Voltage	1000 V	± 0.5 %	•	•	•
AC Current	10 A	± 1.8 %	•	•	•
DC Current	10 A	± 1.2 %	•	•	•
Resistance	40 MΩ	± 0.8 %	•	•	•
Temperature	760 °C/1400 °F	± 3.0 %		•	•
Duty Cycle	99.9 %	± 1.2 %	•	•	
Frequency	10 MHz	± 1.5 %			•
Capacitance	200 µF	± 3.0 %		•	•
	40 mF	± 3.0 %			•
Diode Check			•	•	•
Continuity			•	•	•
Dimensions	182 x 82 x 55 mm				
Weight	360 g				
Mfg.No.			ST-9915	ST-9917	ST-9918T
Price/Each			99.00	109.00	129.00

MULTIMETER

- True RMS measurements
- Auto and manual ranging
- Data Hold and auto shut off
- Diode check and continuity functions
- Audible and visual safety warnings
- High contrast 4000-count LCD with backlight
- AC/DC Current Range: 20 A
- AC Voltage Range: 750 V
- DC Voltage Range: 1000 V
- Resistance Range: 40 MΩ
- Continuity Range: 30 Ω
- Capacitance Range: 100 µF
- Frequency Range: 9.999 MHz
- Temperature Range: Max. 1832 °F/1000 °C

REED

Model No.	Mfg. No.	Description	Price/Each
HX396	ST-9933	Digital Multimeter	139.00

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | INSTRUMENTS, SCALES & ELECTRICAL | OFFICE PRODUCTS

R25289E

VOLTAGE DETECTOR

- Detects voltage without contact
- AC Voltage Range 90 to 600 V
- Flashing red LED indicator
- For use on 50/60 Hz circuits
- Double moulded plastic housing
- All outer surfaces are non-conductive for safety
- Convenient size with pocket clip
- Cat. III 1000 V safety rating

BUILT-IN FLASHLIGHT

VoltFinder/Flashlight REED AC-9

REED

Model No.	Mfg. No.	Description	Price/Each
IA045	AC-9	AC Voltage Detector	15.00

VOLTAGE TESTERS

- Automatically selects AC voltage, DC voltage or continuity
- Non-contact AC voltage detection
- Automtaically turns on and off
- Visual (LED) and audible (buzzer) continuity indications
- Polarity indication
- Cat. III, 600 V safety rating

MODEL IA043

- Seven LEDs indicate
  AC or DC voltage levels
- AC Voltage Range:
  24, 120, 208, 240, 277, 480, 600 V
- DC Voltage Range:
  6, 12, 24, 36, 48, 110, 220 V
- Continuity: 0 to 85 kΩ

MODEL IA044

- Easy-to-read 1999-count LCD indicates
  AC or DC voltage levels
- AC/DC Voltage Range: 4 to 600 V
- Continuity: 0 to 10 kΩ

IA044

IA043

REED

Model No.	Mfg. No.	Description	Price/Each
IA043	ST-9902N	Voltage/Continuity Tester	49.00
IA044	ST-9903N	Digital Voltage/Continuity Tester	59.00

MULTIMETER

- Non-contact voltage detector
- AC Voltage Range: 100 to 600 V
- Auto-ranging multimeter
- AC/DC Voltage Range: 600 V
- AC/DC Current Range: 200 mA
- Resistance Range: 20 MΩ
- Diode check and continuity test
- Flashlight
- Auto power off
- Double moulded housing and test leads
- EN61010-1 Cat. III, 1000 V safety rating
- 0.2 A/500 V resettable fuse protection
- 2000-count LCD

REED

Model No.	Mfg. No.	Description	Price/Each
IA050	ST-118	Voltage Detector/Multimeter	46.00

DIGITAL MULTIMETER WITH AC/DC OPEN CLAMP SENSOR

- Measures AC and DC current up to 60 A
- Measures AC and DC voltage up to 600 V
- 3400-count digital
  display with bargraph
- Cat. III 300 V safety rating
- Sleep function
  conserves battery life

KYORITSU

Model No.	Mfg. No.	Description	Price/Each
IA170	KEW2000	Digital Multimeter	208.00

DIGITAL MULTIMETER

- 0.5 % basic DC accuracy
- 4,000-count resolution
- Diode check and continuity test
- Data hold function
- Auto ranging and auto power off
- Double moulded plastic housing
- EN61010-1 Cat. III 600 V safety rating
- Includes Type K temperature probe,
  test leads and 9 V battery

REED

Model No. IA406
Mfg. No. ST-922
Price/Each $79.00

SPECIFICATIONS:

AC/DC Voltage Range:	600 V
Accuracy:	AC: ± 1.2 %; DC: ± 0.5 %
AC/DC Current Range:	10 A
Accuracy:	AC: ± 3.0 %; DC: ± 2.5 %
Resistance Range:	40 MΩ
Accuracy:	± 0.8 %
Frequency Range:	10 MHz
Accuracy:	± 1.5 %
Capacitance Range:	200 µF
Accuracy:	± 3.0 %
Duty Cycle Range:	99.9 %
Accuracy:	± 1.2 %
Temperature Range:	760 °C (1400 °F)
Accuracy:	± 3.0 %
Dimensions:	150 x 70 x 48 mm
Weight:	255 g

R29278E

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1401

INSTRUMENTS

DMM/IR THERMOMETER COMBO KIT

- Multimeter and infrared thermometer combo kit
- **IA406** autoranging digital multimeter with temperature function
- **HX243** infrared thermometer with laser sighting
- **IA045** non-contact voltage detector with built-in flashlight
- **HX358** temperature input adapter with **HK953** thermocouple wire probe

REED

Model No. IA539
Mfg. No. ST-TEMPKIT
Price/Each $195.00

INDUSTRIAL COMBO KIT

- Multimeter and clamp meter combo kit
- **HX396** True RMS AC/DC multimeter with temperature function
- **HX319** AC clamp meter with temperature function
- **IA045** non-contact voltage detector with built-in flashlight
- **HX358** temperature input adapter with **HK953** thermocouple wire probe
- **IA181** safety test leads

REED

Model No. IA536
Mfg. No. ST-INDUSKIT
Price/Each $199.00

JR. ELECTRICIAN COMBO KIT

- Clamp meter and voltage/continuity tester combo kit
- **HX379** AC clamp meter with temperature function
- **IA043** voltage/continuity tester
- **IA045** non-contact voltage detector with built-in flashlight
- **HX358** temperature input adapter with **HK953** thermocouple wire probe
- **IA181** safety test leads

REED

Model No. IA538
Mfg. No. ST-ELECTRICKIT
Price/Each $129.00

HVAC COMBO KIT

- True RMS multimeter & clamp meter combo kit
- **HX396** True RMS AC/DC multimeter with temperature function
- **IA195** True RMS AC/DC clamp meter with temperature function
- **IA045** non-contact voltage detector with built-in flashlight
- **HX358** temperature input adapter with **HK953** thermocouple wire probe
- **IA181** safety test leads

REED

Model No. IA537
Mfg. No. ST-HVACKIT
Price/Each $359.00

AC/DC CLAMP-ON ADAPTER

- Range: 0 to 200 A AC/DC, 0 to 2000 A AC/DC
- Accuracy: ± 2% up to 200 A, ± 3% up to 1500 A w/ push button zero
- Output: 1 mV per 1 A
- Jaw Opening: 2.5" (64 mm)

REED

Model No. IA437
Mfg. No. CA-203
Price/Each $119.00

AC CURRENT CLAMP-ON ADAPTER

- Ideal tool to extend the current range for all multimeters
- AC Current Range: 200 A
- Voltage output of 1 mV/A via standard banana inputs

REED

Model No. IA184
Mfg. No. CP-09
Price/Each $35.00

MULTIMETER ACCESSORIES

MODEL HX357

- Enables clamp meter user to measure AC current on a 2-wire or 3-wire power cord to 15 A
- Provides easy and safe measurements of current without the need to cut off the plug and separate the conductors
- Plugging the power connector into the line splitter separates the hot/live conductor from the neutral and ground

MODEL HX358

- Adapts mini-connector inputs to banana plug inputs
- Can be used with many of the thermocouple probes

HX357

HX358

REED

Model No.	Mfg. No.	Description	Price/Each
HX357	AC-006	AC Line Splitter	15.00
HX358	AD-1	Input Adapter	12.00

R2925SE

LEADS, CLIPS & TEST PROBES

MODEL IA171
- ø4 mm safety test leads
- Silicone insulated
- 100 cm long
- Right angle sheathed banana plug to straight sheathed banana plug
- Set of two, one black and one red
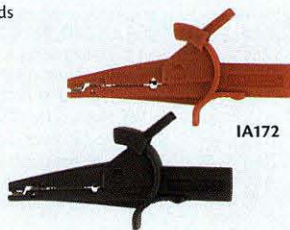- **IA171** to be used in conjuction with items listed below
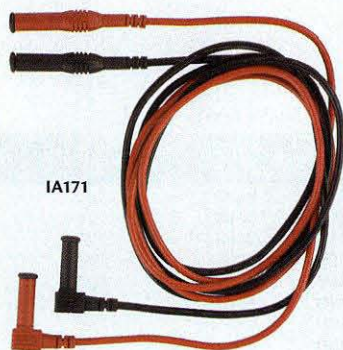
MODEL IA172
- Safety alligator clips

MODEL IA173
- Push-on safety test clips with strong jaws
- Insulated, nickel plated jaws grip objects up to 3/8"
- Blunt grip grabs round screw heads

MODEL IA174
- Tips include banana-style spring contacts with nickel-plated brass ends
- Ideal for probing banana plug receptacles

MODEL IA175
- Push-on safety test probes with stainless steel tips
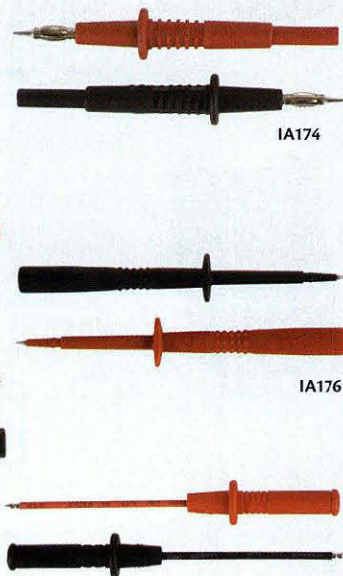- Rigid with protective caps

MODEL IA176
- Industrial test probes with stainless steel tips

MODEL IA177
- Safety jaw clips

MODEL IA178
- Electronic test probes
- Tapered tips for probing electronic components or boards
- Removable guard for IC probing

Model No.	Mfg. No.	Description	Price/Each
IA171	FC-108	Safety Test Leads	16.00
IA172	FC-A23	Safety Alligator Clips	12.00
IA173	CF-734760	Safety Test Clips	28.00
IA174	FC-105	Safety Test Probes	10.00
IA175	FC-105 A	Safety Test Probes	10.00
IA176	FC-170 A	Industrial Test Probes	16.00
IA177	FC-178 A	Safety Jaw Clips	16.00
IA178	FC-A18	Electronic Test Probes	4.00

BASIC TEST LEADS

MODEL IA181
- Set of two 48" long leads, one black and one red
- Flexible silicone insulated safety test leads are heat and cold resistant
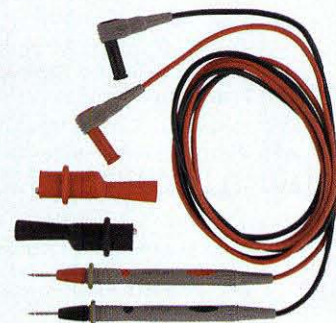- Distinctive comfort grip test probes with stainless steel tips
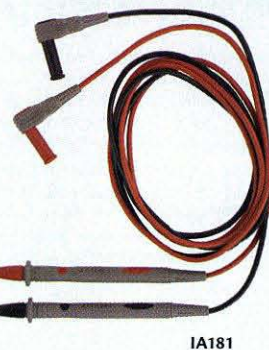
MODEL IA182
- Slide-on style for test probes
- Jaws open to 8 mm

MODEL IA183
- Same as **IA181** with **IA182** alligator clips

Model No.	Mfg. No.	Description	Price/Each
IA181	TL-88-1	Safety Test Leads	16.00
IA182	FC-A15	Safety Alligator Clips	4.00
IA183	TL-88-A15	Safety Test Lead and Alligator Clips	19.00

TEST LEAD KITS

MODEL IA179
- Safety test lead kit (electrical) includes:
  - **IA171** safety test leads
  - **IA172** alligator clips
  - **IA175** test probes
  - **HX360** carrying case

MODEL IA180
- Deluxe safety test lead kit (electrical) includes:
  - **IA181** safety test leads
  - **IA171** safety test leads
  - **IA182** alligator clips
  - **IA172** alligator clips
  - **IA178** electronic test probes
  - **IA174** test probes
  - **IA175** test probes
  - **IA176** industrial test probes
  - **IA177** safety jaw clips
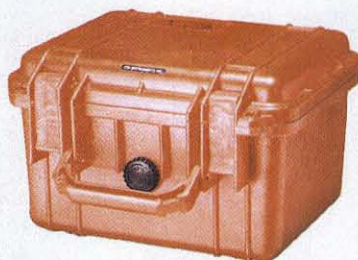 - **IA173** test clips
  - **HX360** carrying case

Model No.	Mfg. No.	Description	Price/Each
IA179	FC-108G	Safety Test Lead Kit	49.00
IA180	FC-A23G	Deluxe Safety Test Lead Kit	139.00

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1403

PELICAN PROTECTOR EQUIPMENT CASES

Light, strong, watertight and airtight for the ultimate protection. Constructed of copolymer and polypropylene. Features a 1/4" neoprene O-Ring seal and a purge valve. Supplied complete with pre-scored pick & pluck foam or padded dividers (no cutting required). Custom foam insert fabricated on special order. Also includes ABS locking flanges, massive multiple latches and a comfortable moulded grip handle.

Note: Models **HA597** and **HA603** supplied with solid foam only.
- Other colours available for Mfg No. 1700 to 1750 are desert tan and green
- Other colours available for Mfg No. 1200 to 1600 are silver, desert tan and green

**PELICAN™**
You break it, we replace it... forever.

FEATURES:

"O"-Ring Seal: Exclusive 1/4" neoprene "O"-Ring guarantees a perfect seal. Neither dust nor water can penetrate this barrier to damage your equipment. These rings are easily replaced if damaged.

Purge Valve: All cases are absolutely airtight. Exclusive built-in "O"-Ring sealed pressure purge valve allows for quick equalization after changes in temperature or altitude.

PROTECTIVE CASES

Black	Model No. Orange	Mfg. No.	Description	Price /Each
HA292	HA293	1200	1200 Case	82.15
HA419	HA420	1300	1300 Case	95.85
HA450	HA451	1400	1400 Case	148.00
HA501	HA502	1500	1500 Case	224.00
HA510	HA511	1550	1550 Case	274.00
HA536	HA537	1600	1600 Case	338.00
HA597	-	1700	1700 Case	395.00
HA603	-	1750	1750 Case	449.00

FOAM INSERTS

| Model No.	Mfg. No.	Description	Price/Each
HA296	1201	3 pc. foam insert for HA292, HA293	31.41
HA423	1301	3 pc. foam insert for HA419, HA420	39.53
HA460	1401	3 pc. foam insert for HA450, HA451	52.85
HA503	1501/A	3 pc. foam insert for HA501, HA502	73.02
HA512	1551	4 pc. foam insert for HA510, HA511	115.00
HA538	1601	4 pc. foam insert for HA536, HA537	161.00
HA599	1701	3 pc. foam insert for HA597, HA598	116.00
HA605	1751	4 pc. foam insert for HA603	145.00

MODEL NO. HA292

Outside Dimensions:
10 5/8" L x 9 11/16" W x 4 7/8" D
Inside Dimensions:
9 3/8" L x 7 1/4" W x 4 1/16" D
Fold-down handle.
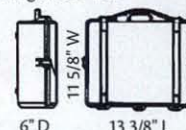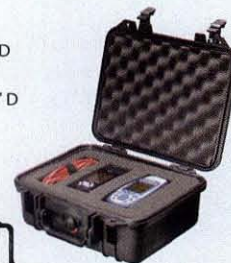Weight: 3.47 lbs.

4 15/16" D   9 3/4" W   10 5/8" L
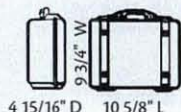
MODEL NO. HA419

Outside Dimensions:
10 5/8" L x 9 11/16" W x 6 7/8" D
Inside Dimensions:
9 3/8" L x 7 1/4" W x 6 1/8" D
Fold-down handle.
Weight: 4.28 lbs.
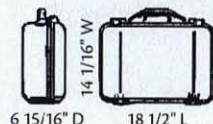
6 7/8" D   9 11/16" W   10 5/8" L
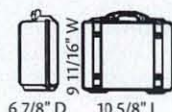
MODEL NO. HA450

Outside Dimensions:
13 3/8" L x 11 5/8" W x 6" D
Inside Dimensions:
12" L x 9 1/16" W x 5 3/16" D
Fold-down handle.
Integral personalised nameplate.
Weight: 5.49 lbs.

6" D   11 5/8" W   13 3/8" L

MODEL NO. HA501

Outside Dimensions:
18 1/2" L x 14 1/16" W x 6 15/16" D
Inside Dimensions:
17" L x 11 7/16" W x 6 1/8" D
Fold-down handle.
Integral personalised nameplate.
Weight: 8.70 lbs.

6 15/16" D   14 1/16" W   18 1/2" L

MODEL NO. HA510

Outside Dimensions:
20 5/8" L x 16 7/8" W x 8 1/8" D
Inside Dimensions:
18 3/4" L x 14 3/8" W x 7 5/8" D
Fold-down handle.
Integral personalised nameplate.
Weight: 13.37 lbs.

8 1/8" D   16 1/8" W   20 5/8" L
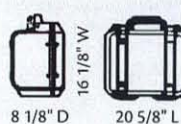
MODEL NO. HA536

Outside Dimensions:
24 1/4" L x 19 7/16" W x 8 11/16" D
Inside Dimensions:
21 3/4" L x 16 13/16" W x 7 7/8" D
Fold-down handle.
Integral personalised nameplate.
Weight: 16.52 lbs.

8 11/16" D   19 7/16" W   24 1/4" L
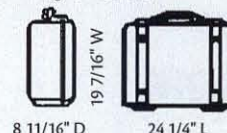
MODEL NO. HA597

Outside Dimensions:
38 1/8" L x 17 13/16" W x 6 1/8" D
Inside Dimensions:
35 3/4" L x 13 13/16" W x 5 1/4" D
Fold-down handle.
Weight: 19.72 lbs.

6 1/8" D   17 13/16" W   38 1/8" L
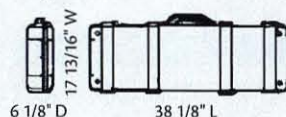
MODEL NO. HA603
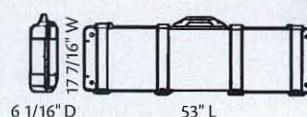
Outside Dimensions:
53" L x 17 7/16" W x 6 1/16" D
Inside Dimensions:
50 1/2" L x 13 7/16" W x 5" D
Fold-down handle.
Weight: 28.34 lbs.

6 1/16" D   17 7/16" W   53" L

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

R25297E

CARRYING CASES

PROTECT & STORE YOUR MULTIMETER & ACCESSORIES IN A FABRIC CARRYING CASE

HX360

HF211

IA434

HN416

IA435

HN413

REED

Model No	Mfg. No.	Outside Dimensions						Price /Each
		L"	x	W"	x	D"		
IA434	C-833R	11	x	9	x	2		22.00
IA435	C-830	11	x	9	x	2		30.00
HX360	C-820	8	x	5	x	2		18.00
HF211	CA-03	8	x	5	x	2		18.00
HN416	CA-05 A	9	x	4	x	2		21.00
HN413	CA-52 A	7	x	3	x	2		15.00

AC/DC CLAMP METER

- True RMS AC/DC clamp meter with temperature function
- AC/DC current to 600 A
- Basic 2.5 % DC current accuracy
- Resolution 0.1 A
- Data Hold
- Peak Hold
- DC current zero adjust
- Auto power off
- Complete with test leads, battery and carrying case
- AC/DC Current Range: 400 A, 600 A
- AC/DC Voltage Range: 600 V
- Resistance Range: 40 MΩ
- Temperature Range: -4° to 1400°F/-20° to 760°C

REED

Model No.	Mfg. No.	Description	Price/Each
HX394	ST-9800T	AC/DC Clamp-on Ammeter w/ Temperature	129.00

AC/DC CLAMP METER

- Full function autoranging DMM includes AC/DC voltage and current, resistance, capacitance, frequency, duty cycle, diode and continuity
- Current measurements to 2000 A through the clamp and 240 mA via test leads
- Large 5000 count backlit display for high resolution
- Basic DCV accuracy of 1 % with 0.1 mV resolution and current resolution to 0.1 µA
- 2.36" (60 mm) clamp jaw opening (750 MCM)
- DC current push button zero, relative measurements and Data Hold
- Heavy duty ABS case with built-in stand and thumb control function switch
- DC/AC Current Range (Clamp): 240, 2000 A
- DC/AC Current Range (DMM): 240, 2400 µA, 24, 240 mA
- DC/AC Voltage Range: 2.4, 24, 240, 1000 V
- Capacitance Range: 25, 250 nF, 2.5, 25 µF
- Resistance Range: 240 Ω, 2.4, 24, 240 kΩ, 2.4, 24 MΩ
- Frequency Range: 50, 500 Hz, 5, 50, 100 kHz
- Duty Cycle Range: 0.1 % to 99.9 %

REED

Model No.	Mfg. No.	Description	Price/Each
HN415	CM-9930	AC/DC Clamp-on Meter	219.00

Call us for all your Instrument & Electrical requirements!

R29256E

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE | 1405

AC/DC CLAMP METERS

MODEL IA167 – WITH LARGE DIAMETER JAWS

- Measures AC and DC current up to 2000 A, plus AC and DC voltage up to 750 V and 1000 V respectively
- Measures resistance up to 4000 Ω
- Peak hold function
- Shielded banana plugs and recessed input terminals
- Output terminal
- Tear drop shaped jaws facilitates use in tight places and crowded cable areas

MODEL IA168 – THE SMALLEST CLAMP METER ON THE MARKET

- Capable of both AC and DC measurements
- Measures AC and DC current up to 200 A, plus AC and DC voltage up to 500 V and 200 V respectively
- Measures resistance up to 200 Ω
- Resolution of 0.01 A AC/DC
- Pocket-sized
- Includes test leads and carrying case

MODEL IA169 – OPEN CLAMP CURRENT SENSOR

- Ideal for use in crowded connection boxes where space is too limited for traditional clamp meters
- Non-contact voltage detection
- True RMS AC current measurement to 100 A
- Zero adjust function
- Auto power off
- Data hold

KYORITSU

| IA167 | IA168 | IA169 |

Model No.	Mfg. No.	Description	Price/Each
IA167	KEW2003A	AC/DC Clamp Meter	595.00
IA168	KEW2004	AC/DC Clamp Meter	429.00
IA169	KEW2300R	AC/DC Clamp Meter	149.00

AC CLAMP METER

- Permits current measurements on a live conductor without circuit interruption
- Rotary switch selects one range at a time
- Analog scale
- Includes test leads, 2 fuses, single AA battery, and carrying case
- Voltage Ranges: 150/300/600 VAC
- Current Ranges: 6/20/60/200/600 AAC
- Resistance Range: 2 kΩ (25 Ω mid-scale)

KYORITSU

Model No.	Mfg. No.	Description	Price/Each
HK661	KEW2805	AC Clamp Meter	179.00

AC/DC CLAMP METERS

- AC/DC clamp meter with LCD and bargraph displays
- 3 3/4 LCD digits with high-speed, 42-segment bargraph
- Touch Zero and Data Hold functions
- Polarity and overload indications
- Continuity test
- Auto or manual ranging
- Auto power-off
- Low battery indication
- Jaw opening 30 mm
- Current Range: 40 A, 400 A AC/DC
- Voltage Range: 400 V, 600 V AC/DC
- Resistance Range: 400 Ω
- Continuity Range: < 40 Ω

REED

Model No.	Mfg. No.	Description	Price/Each
HX162	C-201	AC/DC Clamp Meter	149.00

TRUE RMS AC/DC CLAMP METER

- True RMS measurements
- 3 3/4 LCD digits with high-speed, 42-segment bargraph LCD display
- Touch Zero and Data Hold functions
- Peak Hold function
- Frequency measurement
- Diode and continuity test with beeper
- Polarity and overload indications
- Auto or manual ranging
- Auto power-off
- Low battery indication
- Jaw opening 40 mm
- Current Range: 40 A, 400 A, 1000 A AC/DC
- Voltage Range: AC: 400 V, 750 V; DC: 400 V, 1000 V
- Resistance Range: 400 Ω, 4000 Ω
- Frequency Range: 4 kHz, 10 kHz
- Continuity Range: < 100 Ω

REED

Model No.	Mfg. No.	Description	Price/Each
HX161	C-212	True RMS AC/DC Clamp Meter	195.00

AC/DC CLAMP METER

- Pocket-sized, autoranging clamp-on
- Measure AC/DC current and voltage, frequency and resistance
- Auto or manual ranging with Data hold and Relative mode
- Continuity beeper and diode test
- Overload protection on all ranges
- Large 2999 count display (4999 counts for Hz)
- 1.2" (30 mm) clamp jaw opening (500 MCM)
- Compact, rugged clamp-on with splash resistant front panel design
- Complete with test leads, two 1.5 V AA batteries and carrying case
- AC/DC Current Range: 600 A
- AC/DC Voltage Range: 600 V
- Resistance Range: 24 MΩ
- Frequency Range: 100 kHz

REED

Model No.	Mfg. No.	Description	Price/Each
HN411	CM-9940	AC/DC Clamp-on Meter	159.00

1406

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

R20279E

AC/DC CLAMP METERS

- Autoranging
- 4000-count LCD with backlight (except **HX506**, 2000-count)
- Data hold and zero functions
- Diode test to 0.3 mA
- 0.1 µA resolution (**HX379**, **HX380** only)
- Temperature function to 1000 °C/1832 °F (**HX378**, **HX379** only)

REED

HX377   **HX378**   **HX379**

Model No.	Mfg. No.	Description	Price/Each
HX377	ST-332	AC/DC Clamp Meter	**129.00**
HX378	ST-333	AC/DC Clamp Meter w/ Temperature	**139.00**
HX379	ST-335	AC Clamp Meter w/ Temperature	**99.00**

Model No.	HX377	HX378	HX379
AC Current Range	400 A	400 A	400 A
DC Current Range	400 A	400 A	-
AC Voltage Range	600 V	600 V	600 V
DC Voltage Range	600 V	600 V	600 V
Resistance Range	20 MΩ	20 MΩ	20 MΩ
Capacitance Range	100 µF	100 µF	100 µF
Frequency Range	-	150 kHz	150 kHz

AC/DC CLAMP-ON METER

- Measures both AC and DC current and voltage
- True RMS reading instrument permits precise measurements regardless of waveforms
- 4000-count digital display with 40-segment analog bar graph
- Audible continuity test and diode check
- Peak hold function
- Data hold function
- DCA zero function
- Low battery indication and auto power off
- Double moulded housing
- Electronic overload protection
- Designed to meet IEC61010-1 Cat. III 600 V

REED

Model No.	Mfg. No.	Description	Price/Each
IA195	ST-3347	AC/DC Clamp-on Meter	**189.00**

SPECIFICATIONS:

AC CURRENT
Max. Range/Res.: 1000 A/10 mA
Basic Accuracy: ± 2.5 % rdg. ± 5 dgt.

DC Current
Max. Range/Res.: 1000 A/10 mA
Basic Accuracy: ± 3.0 % rdg. ± 4 dgt.

AC Voltage
Max. Range/Res.: 600 V/0.1 mV
Basic Accuracy: ± 0.8 % rdg. ± 2 dgt.

DC Voltage
Max. Range/Res.: 600 V/0.1 mV
Basic Accuracy: ± 1 % rdg. ± 4 dgt.

Resistance
Max. Range/Res.: 40 MΩ/0.1 Ω
Basic Accuracy: ± 1.0 % rdg. ± 4 dgt.

CAPACITANCE
Max. Range/Res.: 40 mF/0.01 nF
Basic Accuracy: ± 3.0 % rdg. ± 5 dgt.

FREQUENCY
Max. Range/Res.: 10 MHz/0.01 MHz
Basic Accuracy: ± 1.2 % rdg. ± 3 dgt.

FREQUENCY
Max. Range/Res.:
1000 °C (1832 °F)/1 °C (°F)
Basic Accuracy: ± 3.0 % rdg. ± 5 dgt.

GENERAL
Dimensions:
229(H) x 80(W) x 49(D) mm
Weight: Approx. 303 g

AC/DC CLAMP METERS

- True RMS measurements (**IA163, HX344, HX161, HX162**, only)
- Fully autoranging (**HX344, HX161** only)
- Frequency measurements from V and A (except **HX162**)
- Continuity with beeper below 40 Ω
- Diode test
- Hold function and push-button DC current zeroing
- 4000-count display with 42-segment analog bargraph

AEMC INSTRUMENTS

HX343   **HX161**   **IA163**

Model No.	Mfg. No.	Description	Price/Each
HX343	2117.67	AC Clamp Meter, 1000 A	**149.00**
HX344	2117.68	True RMS AC Clamp Meter, 1000 A	**165.00**
HX161	2117.70	True RMS AC/DC Clamp Meter, 1000 A	**195.00**
IA162	2117.21	AC Clamp Meter, 400 A	**120.00**
IA163	2117.66	True RMS AC Clamp Meter, 400 A	**119.00**
HX162	2117.22	True RMS AC/DC Clamp Meter, 400 A	**149.00**

Model No.	HX343	HX344	HX161	IA162	IA163	HX162
AC Current Range	0.05 to 1000 A	0.05 to 1000 Arms	0.05 to 1000 Arms	0.05 to 400 A	0.05 to 400 Arms	0.05 to 400 Arms
AC Voltage Range	0.5 to 750 V	0.5 to 750 Vrms	0.5 to 750 Vrms	0.5 to 600 V	0.5 to 600 Vrms	0.5 to 600 Vrms
DC Current Range	-	-	1 to 1000 A	-	-	0.1 to 400 A
DC Voltage Range	0.2 to 1000 V	0.2 to 1000 V	0.2 to 1000 V	0.2 to 600 V	0.2 to 600 V	0.2 to 600 V
Resistance Range	0.2 to 4000 Ω	0.2 to 4000 Ω	0.2 to 4000 Ω	0.2 to 400 Ω	0.2 to 400 Ω	0.2 to 400 Ω

R25300E

OFFICE PRODUCTS | **INSTRUMENTS, SCALES & ELECTRICAL** | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

INSULATION TESTER

- Test voltage combinations: 250 V, 500 V or 1000 V
- 1 mA test current for MΩ range at rated voltage
- 200 mA test current for continuity range
- Continuity test with beeper
- Large, easy-to-read dual display with backlight

- Data hold switch
- Test button may be locked on for hands-free operation
- Double moulded plastic housing
- Supplied with test leads, batteries and plastic carrying case
- Meets IEC61010-1 Cat. III 1000 V

SPECIFICATIONS:

|	
Insulation resistance tests	
Test Voltage:	250 V, 500 V, 1000 V
Measurement Range:	200 MΩ, 2000 MΩ
Accuracy:	± 3.5 % rdg. ± 5 dgt.
Resistance tests	
Measurement Range:	200 Ω, 2000 Ω
Accuracy:	± 1 % rdg. ± 2 dgt.
Voltage tests	
Measurement Range:	750 VAC; 1000 VDC
Accuracy:	AC: ± 1.2 % rdg ± 10 dgt.
	DC: ± 0.8 % rdg ± 3 dgt.
Continuity tests	
Measurement Range:	Beeps ≤40 Ω
Test Current:	≤200 mA
General	
Power Supply:	6 x 1.5 V AA batteries
Dimensions:	200 x 92 x 50 mm
Weight:	700 g
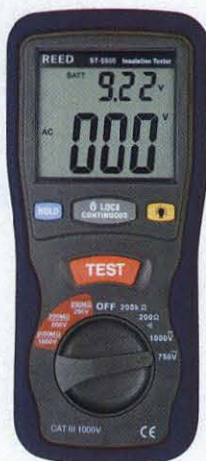
REED

Model No.	Mfg. No.	Description	Price/Each
IA194	ST-550	Insulation Tester	189.00

INSULATION TESTER

- Test voltage combinations: 250 V, 500 V or 1000 V
- Insulation measurements to 4000 MΩ
- Resistance measurements to 4000 Ω
- Continuity test with beeper
- 600 V AC/DC test voltage range
- Large, easy-to-read digital display
- Data hold switch
- Test button may be locked on for hands-free operation
- Automatic discharge when test button is released
- Low battery indication
- Supplied with soft carrying case and leads

REED

Model No.	Mfg. No.	Description	Price/Each
HX345	C-360	Insulation Tester	279.00

CAPACITANCE METER

- Measure 0.1 pF to 20,000 µF in nine selectable ranges
- Accuracy ± 0.5 % typically
- Zero adjustment ± 20 pF
- Fuse-protected against charged capacitors
- 3 1/2 digits readout
- Overload/out of range indication
- Complete with test alligator clips, spare 200 mA fuse and 9 V battery
- Capacitance Range: 200 pF, 2 nF, 20 nF, 200 nF, 2 µF, 20 µF, 200 µF, 2000 µF, 20,000 µF

REED

Model No.	Mfg. No.	Description	Price/Each
HF969	K5020	Capacitance Meter	179.00

INSULATION TESTER

- 3-range insulation test voltage
- 200 mA continuity test
- Live circuit warning lamp
- Automatic discharge of circuit capacitance when test button is released
- Internal circuitry is fuse protected
- Press-to-Test button with lock down feature
- Includes test leads, spare fuse, batteries and carrying case
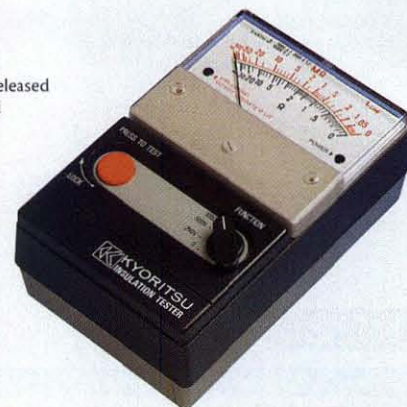
KYORITSU

Model No.	Mfg. No.	Description	Price/Each
IA433	KEW3111V	Insulation/Continuity Tester	380.00

INSULATION TESTER

- Offers unmatched performance and features like test lead resistance zero adjustment for time-saving continuous operation
- Three insulation test ranges: 250 V, 500 V, 1000 V
- Continuity range: 2 Ω and 20 Ω
- Live circuit warning lamp plus audible warning
- Automatic discharge of circuit capacitance
- Front panel press to test and zero adjust

KYORITSU

Model No.	Mfg. No.	Description	Price/Each
IA192	KEW3131 A	Insulation Tester	387.00

INSULATION TESTER

- A compact and easy-to-use insulation and continuity tester that is ideal for more arduous environments
- Three insulation test ranges: 250 V, 500 V, 1000 V
- Continuity range: 3 Ω and 500 Ω
- 200 mA measuring current on continuity testing
- Live circuit warning buzzer and neon lamp
- Automatic discharge of circuit capacitance
- Dust and drip proof construction (designed to IP54)

KYORITSU

Model No.	Mfg. No.	Description	Price/Each
IA193	KEW3132 A	Insulation Tester	326.00

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

R20257E

GROUND RESISTANCE TESTER

- Measures ground resistance from .025 Ω to 1550 Ω
- Measures ground leakage current form 0.2 mA to 35 A
- Induces test current into system without disturbing existing connections
- True RMS current measurement facility
- Automatic self calibration • Auto ranging
- Auto power off (configurable)
- Configurable high and low alarms with audible indication
- Indication of high noise content that may affect readings
- On-board storage of test results
- Hold function • Over current protected
- Accommodates conductors up to 1.37" (35 mm) in diameter
- RS232 interface (**IA190** only)
- Complete with heavy-duty carrying case, multi-value resistance calibration check loop, download cable and Download Manager driver (**IA190** only)

Megger.

IA190

Model No.	Mfg. No.	Description	Price/Each
IA189	DET10C	Ground Resistance Tester	1773.00
IA190	DET20C	Ground Resistance Tester	2190.00

CABLE TRACER

- All components are fully fuse protected and intrinsically safe; and fit into a foam-lined carrying case
- Model R2000 Receiver has two detectors in its tip which are tuned to pick up the electromagnetic signals ('short' mode) or electrostatic signals ('open' mode) generated by other components
- LEDs and sensitivity settings indicate the relative signal strength to allow easy detection of the signal source
- Model S2600 Load Signal Generator, when connected to an energized line, will draw a rapidly fluctuating current pulse from the source, causing the power line to emit an electromagnetic signal which is detected by the R2000 in the 'short' mode
- Model T2200 Transmitter injects a signal into an unenergized conductor. If the conductor is broken (open), no current will flow, so the signal is present as a voltage pulse, which is detected along the conductor's length by the R2000's electrostatic detector ('open' mode)
- Model A2201 Inductive Clamp when clamped around the energized line and plugged into the T2200 will induce a signal onto the downstream (load) side to enable identification of equipment on that circuit
- Includes: Receiver, load signal generator, transmitter, clamp-on transmitter accessory, cordsets and adapter

▲ AMPROBE.

Model No.	Mfg. No.	Description	Price/Each
HD909	AT-2004	Cable Tracing System	1495.00

MILWAUKEE® HVAC/R FORK METER

- Embedded non-contact voltage detection and LED work lights
- Fork Opening: 0.63"
- True RMS
- Amps: 200 A AC (uA DC)
- Volts : 1000 AC, 1000 DC (auto volts)
- Resistance: 200-20 MOhms
- Continuity: Yes
- Capacitance: Yes
- Contact Temp: Yes
- CAT III 1000V / CAT IV 600V

Milwaukee

Model No.	Mfg. No.	Description	Price/Each
IA646	2206-20	HVAC/R Fork Meter	186.40

PHASE TESTER

MODEL HX164

HX164

- Testing phase orientation of 3-phase power sources ranging from 100 to 660 VAC
- Frequency range over 50 to 70 Hz
- Five LEDs indicate phase orientation (clockwise or counter-clockwise); and whether each of three phases is live
- Complete with 3 large alligator clips

MODEL HX165

- Combines above 3-phase tester with a motor rotation tester for measuring the rotation direction of motor shafts
- Ensures motor is not damaged from incorrect wiring
- Complete with 3 large alligator clips

HX165

REED

Model No.	Mfg. No.	Description	Price/Each
HX164	RT-606	3-Phase Rotation Tester	79.00
HX165	RT-608	3-Phase and Motor Rotation Tester	159.00

PHASE ROTATION INDICATOR

WITH OPEN PHASE CHECKER

- Designed to check the presence of an open phase and also the phase sequence with rotating disks and lamps
- Verifies a wide range of 3-phase power sources from 110 V to 600 V
- Colour-coded integrated test leads eliminate the risk of misconnection and meter damage

KYORITSU

Model No.	Mfg. No.	Description	Price/Each
IA185	KEW8031	Phase Rotation Indicator	122.00

EARTH RESISTANCE TESTER

- 0.001 Ω resolution for low resistance measurements
- ± 0.01 Ω accuracy
- Record up to 99 resistance measurement values
- Alarm function of resistance limits
- User settable alarm threshold from 1 to 100 Ω
- Measure leakage current and neutral current from 1 mA to 20 A
- Sampling rate of 1 measurement per second
- 3 3/4 LCD digits readout
- Display hold function
- Autoranging
- Double insulated clamp for increased safety
- Jaw opening measures 45 x 32 mm
- Resistance Range: 0.01-0.999 Ω, 1-9.99 Ω, 10-99.9 Ω, 100-199.9 Ω, 200-400 Ω, 400-600 Ω, 600-1200 Ω
- Current Range: 100 mA, 300 mA, 1 A, 3 A, 10 A, 20 A

REED

Model No.	Mfg. No.	Description	Price/Each
HX347	MS2301	Earth Resistance Tester	1495.00

OFFICE PRODUCTS | **INSTRUMENTS, SCALES & ELECTRICAL** | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

R29258E

1409

INSTRUMENTS

LOOP CALIBRATOR

- 6-digit LCD readout   • ±0.02% accuracy
- Automatic calibration
- User selectable auto power-off

REED

MEASUREMENT FUNCTIONS:

Voltage Range:	-0.200 to 28.000 V
Resolution:	1 mV
Accuracy:	±0.02% reading ±2 mV
Current Range:	-1.000 to 22.000 mA
Resolution:	0.001 mA
Accuracy:	±0.02% reading ±4 µA
Loop Current	
Range:	0.000 to 22.000 mA
Resolution:	0.001 mA
Accuracy:	±0.02% reading ±4 µA

OUTPUT FUNCTIONS:

Current Range:	0.000 to 22.000 mA
Resolution:	0.001 mA
Accuracy:	±0.05% setting ±4 µA
Analogue Transducer	
Range:	0.000 to -22.000 mA
Resolution:	0.001 mA
Accuracy:	±0.05% setting ±4 µA
Loop Power:	24 V
Accuracy:	±10%

GENERAL:

Power Supply:	Single 9 V alkaline battery
Battery Life:	Approx. 12 hours
Ambient Conditions:	-10 to 55 °C; ≤ 80% RH
Dimensions:	200 x 100 x 40 mm w/ holster

Model No. IA412   Mfg. No. VC05
Price/Each $395.00

TEMPERATURE CALIBRATOR

- 6-digit LCD readout
- Auto-offset cold-end temperature
- Selectable 2-/3-/4-wire connect

MEASUREMENT FUNCTIONS:

- Voltage Range: 0.00 to ±450.00 mV
- Current Range: 0.00 to 450.00 Ω
- Thermocouple Range:
  R: -40 to 1760 °C; S: -20 to 1760 °C;
  B: 400 to 1800 °C; E: -200.0 to 1000.0 °C;
  K: -200.0 to 1370.0 °C; J: -200.0 to 1200.0 °C;
  T: -200.0 to 400.0 °C; N: -200.0 to 1300.0 °C
- Thermo-Resistance Range:
  Pt100: -200.0 to 850.0 °C;
  Cu50: -50.0 to 150.0 °C

OUTPUT FUNCTIONS:

- Voltage Range: -10.000 to 110.00 mV;
  0.0000 to 1.1000 V
- Resistance Range: 0.00 to 400.0 Ω
- Thermocouple and Themo-Resistance
  Ranges: Same as measurement function

Model No.	Mfg. No.	Description	Price/Each
IA413	VC14	Temperature Calibrator	795.00

CURRENT/VOLTAGE CALIBRATOR

- Full function calibrator with
  multiple input/output ranges
  for both current and voltage
- 6-digit LCD readout
- ±0.02% accuracy
- Automatic calibration
- User selectable auto power-off

MEASUREMENT FUNCTIONS:

- Voltage Range: 0.000 to 11.000 V
- Current Range: 0.000 to 22.000 mA
- Loop Current Range: 0.000 to 22.000 mA

OUTPUT FUNCTIONS:

- Voltage Range: 0.000 to 11.000 V
- Current Range: 0.000 to 22.000 mA
- Loop Power Range: 24 V

REED   **REED**

Model No.	Mfg. No.	Description	Price/Each
IA414	VC15	Current/Voltage Calibrator	795.00

TEMPERATURE SIMULATOR

- 6-digit LCD readout
- Auto calibration
- Voltage Range: -10.00 to 110.00 mV;
  -100.00 to 1100.0 mV
- Resistance Range: 0.0 to 400.0 Ω
- Thermocouple Range:
  R: -40 to 1760 °C; S: -20 to 1760 °C;
  B: 400 to 1800 °C; E: -200.0 to 1000.0 °C;
  K: -200.0 to 1370.0 °C; J: -200.0 to 1200.0 °C;
  T: -200.0 to 400.0 °C; N: -200.0 to 1300.0 °C
- Thermo-Resistance Range: Pt100: -200.0
  to 850.0 °C; Cu50: -50.0 to 150.0 °C

REED

Model No.	Mfg. No.	Description	Price/Each
IA410	VC01	Temperature Simulator	395.00

CURRENT/VOLTAGE CALIBRATOR

- Combines voltage and current, source
  and read functions into one instrument
- 5-digit LCD readout
- ±0.05% accuracy
- Automatic calibration
- User selectable auto power-off

MEASUREMENT FUNCTIONS:

- Voltage Range: 0.000 to 22.000 mV
- Current Range: 0.000 to 22.000 mA
- Loop Current Range: 0.000 to 22.000 mA

OUTPUT FUNCTIONS:

- Voltage Range: 0.000 to 11.000 V
- Current Range: 0.000 to 22.000 mA
- Loop Power Range: 24 V

REED

Model No.	Mfg. No.	Description	Price/Each
IA411	VC04	Current/Voltage Calibrator	395.00

INFRARED TEMPERATURE CALIBRATOR

- This portable infrared temperature calibrator is as easy to use, just point and shoot
- For calibrating non-contact infrared thermometers up to 500 °C (932 °F)
- Temperature controlled black-body target with a diameter of 2.25" (57 mm)
- Wide field of view to compensate for optical variations in individual infrared thermometers
- Simply set the desired temperature in increments of 0.1°, wait for the calibrator to attain
  equilibrium, point the infrared thermometer at the target, and measure the radiated energy
- Contact RTD reference well is located directly behind the
  blackbody target to assure even higher accuracies of ±0.1 °C

**Model No. IA548   Mfg. No. BX-500   Price/Each $1195.00**

REED

R25306E

POWER QUALITY ANALYZERS

AEMC INSTRUMENTS

- Display voltage, current and power harmonics to 50th order, including direction in real time
- Real time colour display of waveforms including transients
- True rms voltage and current (600 V, Cat. III, 3000 A)
- True single and three phase measurements
- Easy on-screen graphics for setup
- Phasor diagram display
- Peak voltage and current
- Nominal frequency from 40 to 70 Hz
- VA, Var and W per phase and total
- kVAh, VARh and kWh
- Neutral current
- Crest factors for current and voltage
- K-factor for transformer
- Power factor, displacement PF and tangent
- Captures up to 50 transients
- Short-term flicker and voltage
- Phase unbalance (current and voltage)
- Harmonic distortion (total and individual)
- Alarms, surge and sags
- Recording, date and characteristic of disturbances
- Immediate printout of the screen to a printer
- Screen snapshot function captures waveforms
- Optically RS-232 communication
- Includes *DataView*® software
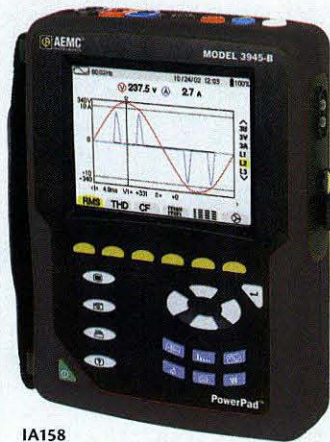
IA158

SPECIFICATIONS:

- Frequency: 40 to 60 Hz
- Single-phase Vrms: 6 to 480 V
- Phase-to-phase Vrms: 10 to 830 V
- DC Voltage: 6 to 100 V
- Single-phase Vpp: 6 to 680 V
- Phase-to-phase Upp: 10 to 1360 V
- Crest Factor (Vcf): 1.00 to 9.99
- Real Power (W): 0 to 9999 kW
- Reactive Power (VAR): 0 to 9999 kW
- Apparent Power (VA): 0 to 999 kVA
- Power Factor (PF): -1.000 to 1.000

- Active Energy (Wh): 0 to 9999 MWh
- Reactive Energy (VARh): 0 to 9999 MVARh
- Apparent Energy (Vah): 0 to 9999 MVah
- Phase Angle: -179 to +180°
- Harmonics Ratios: 0 to 999%, 1 to 50th harmonic
- Total Harmonics Distortion: 0 to 999%
- Current K Factor: 1 to 99.99
- Voltage Flicker: 0.00 to 9.99

Model No.	Mfg. No.	Description	Price/Each
IA158	2130.75	Three Phase - w/200 A Current Clamp	3958.00
IA159	2130.76	Three Phase - w/1000 A Current Clamp	4172.00
IA160	2130.77	Three Phase - w/3000 A AmpFlex Clamp	4279.00

POWER QUALITY ANALYZER

EVERYTHING REQUIRED FOR POWER CONSUMPTION & ENERGY SAVING ANALYSIS

- Performs 12 kinds of power measurements
- Measures 4 types of wiring systems
- Regenerative electric power can be measured
- Electric power and power factor for each phase can be confirmed
- Demand function for energy saving measurements
- Displays 3 different data simultaneously
- Internal non-volatile memory for non-stop recording up to 10 days
- User-selectable recording interval

KYORITSU

Model No.	Mfg. No.	Description	Price/Each
IA161	KEW6300-01	Electrical Tester	2495.00

AC DATALOGGER

- Single or three phase capable
- Three channels for voltage measurements and four channels for current measurements
- All readings are True RMS; Max., Min., Avg. and Peak Max.
- Power measurements include: Real Power (watts), Reactive Power (Vars), Apparent Volts-Amps (VA), True Power Factor (PF)
- Energy measurements include: KW-HRs, Demand or Non-demand
- AC voltage up to 600 V • AC current up to 1000 A
- Chartless • Real time clock
- Auto-ranging • Graphic display
- User selectable variable length recording mode
- Data can be viewed in the field via large self-contained backlit display or downloaded and accessed through a personal computer via *DM-IID*™ *View*™ software
- Rugged, weatherproof ABS plastic case
- Line operated (120/240 VAC, 50/60 Hz)
- Battery back-up protects memory in the event of a power failure

AMPROBE.
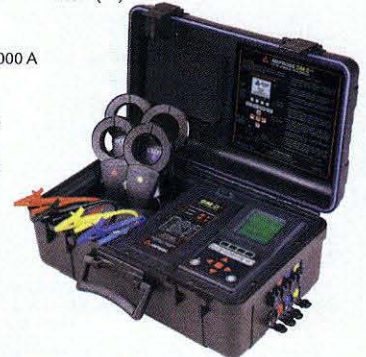
Model No.	Mfg. No.	Description	Price/Each
HF435	DM-II	AC Datalogger/Recorder	3149.00

IR-500 INFRARED THERMOMETER

- Laser sighting, non-contact temperature measurement
- Easy to use: one button operation
- Backlit LCD display
- Wide -18°C (0°F) to 260°C (500°F) temperature range
- Capacity to change from Fahrenheit to Celsius
- Powered by 9 V battery (included)

3M

Model No.	Description	Price/Each
XB925	IR-500 Infrared Thermometer	159.28

MILWAUKEE® HVAC/R CLAMP METER

SPECIFICATIONS:

- Embedded non-contact voltage detection and LED work lights
- HVAC/R 2236-20
- Jaw size - 1.3"
- True RMS
- 600 A AC, uA DC – 600
- 600 V AC/DC
- Ohms: 6 k0hms
- Continuity: Yes
- Capacitance: Yes
- Contact Temp: Yes
- CAT III 600V

Milwaukee

Model No.	Mfg. No.	Description	Price/Each
IA647	2236-20	HVAC/R Clamp Meter	268.00

INFRARED THERMOMETER

- Precise non-contact temperature measurements
- Temperature Range: -58° to 1832°F (-50° to 1000°C)
- Fahrenheit/Celsius selectable
- Digitally adjustable emissivity from 0.10 to 1.0
- High and low alarm setpoints
- Max, Min and Dif. Avg. temperature displays
- Built-in laser pointer
- Large LCD with backlight and display hold
- 50:1 distance to spot size ratio
- Includes battery and carrying case

REED

Model No.	Mfg. No.	Description	Price/Each
IA084	ST-8839	Infrared Thermometer	289.00

INFRARED THERMOMETER

- Compact infrared thermometers with wide temperature ranges and laser sighting
- User selectable °F or °C
- Built in laser pointer identifies target area
- 12:1 distance to spot ratio measures smaller surface areas at a greater distance
- Unique flat surface and modern housing design
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, auto data hold (when trigger released) and auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- Includes battery and carrying case
- Range: -58° to 1382°F (-50° to 750°C)

REED

Model No.	Mfg. No.	Description	Price/Each
HX245	ST-8819	Infrared Thermometer	179.00

INFRARED THERMOMETERS

- Model **HK760** features extra-bright, single-point laser sighting, preset emissivity at 0.95, and a temperature range of -25° to 999°F or -32° to 535°C
- Model **IA080** features hi/lo alarm, 12-point data logging, advanced optics to measure smaller targets at greater distances, and adjustable emissivity for more accurate measurements. This model has a temperature range of -25° to 1100°F (-32° to 600°C) and a D:S ratio of 30:1
- Model **IA081** has all of the features of the **IA080**, but with a temperature range of -25° to 1400°F (-32° to 760°C) and a D:S ratio of 50:1
- Model **IA082** is an intrinsically safe version of the **IA081** designed for temperature measurement in potentially explosive or flammable environments

IA081

Raytek

Model No.	Mfg. No.	Description	Price/Each
HK760	RAYST20XBUS	Standard Infrared Thermometer	239.00
IA080	RAYST60XBUS	Enhanced Infrared Thermometer	477.00
IA081	RAYST80XBUS	Enhanced Infrared Thermometer	613.00
IA082	RAYST80XBISUS	Intrinsically Safe Infrared Thermometer	886.00

INFRARED THERMOMETERS

- Temperature range of -30° to 900°C (-25° to 1600°F)
- Extra-bright, single point laser sighting
- Improved optics (D:S 60:1)
- Adjustable emissivity
- Backlit graphical display
- Bar graph plots the last 10 temperature points
- Maximum and minimum readings
- Audible/visual high alarm
- Locking trigger allows continuous temperature measurement
- Model **HN001** features differential and average calculations, on-board emissivity table with 30 preset settings, 100-point memory, RS-232 output and data graphing software

HM998

Raytek

Model No.	Mfg. No.	Description	Price/Each
HM998	RAYMX2TD	Basic Infrared Thermometer	995.00
HN001	RAYMX4PTD	Deluxe Infrared Thermometer	1495.00

INFRARED THERMOMETER

- Two-in-one thermometer combines infrared and K-thermocouple probe temperature measurement
- Infrared thermometer with integral type K thermocouple input
- IR Temperature Range: -58 to 1922°F (-50 to 1050°C)
- T/C Temperature Range: -58 to 2498°F (-50 to 1370°C)
- Built-in laser pointer identifies target area
- Digitally adjustable emissivity from 0.10 to 1.0
- 30:1 distance to spot size ratio
- Automatic emissivity capture
- High and low alarms
- Max, Min, Avg, Diff record
- 20 data points of memory
- Display backlighting
- Auto data hold and auto shut off
- Trigger lock
- Includes type K thermocouple probe, battery, and carrying case

REED

Model No.	Mfg. No.	Description	Price/Each
IA496	ST-8835	Infrared Thermometer w/ Type K T/C	169.00

MILWAUKEE® LASER TEMP-GUN™ THERMOMETER

- Temperature Range: -30 to 500°C (-20 to 932°F)
- Basic Accuracy: 1.50%
- Repeatability: 0.50%
- Display Resolution: 0.1°C (0.1°F)
- 12:1 distance to spot ratio
- Response Time: <500 mS
- Emissivity: 0.95
- Hold and Max features
- Configurable Hi/Low alarm limits
- K-Type thermocouple input
- Large white-on-black display for clearer readings

Milwaukee

Model No.	Mfg. No.	Description	Price/Each
IA648	2266-20	Laser Temp-Gun™ Thermometer	174.65

R29260E

mA & T/C CALIBRATOR

MODEL HX262
- Current source: 0 to 24 mA, 2 ranges
- Current measurement: 0 to 24 mA, 2 ranges
- Power (12 V) and Current measurement of 2-wire loop: 0 to 24 mA, 2 ranges
- DC mV source: -199.9 mV to +199.9 mV

MODEL HX263
- 0 to 24 mA precision current source
- Range/Resolution: 0 to 19.99 mA/0.01 mA; 0 to 24.0 mA/0.1 mA
- 13 mm LCD display

MODEL HX313
- Type K thermocouple thermometer and calibrator
- Range: -199 to 1230 °C (-325 to 2246 °F)
- Fahrenheit/Celsius switchable
- Data Hold and RS-232 output

REED

HX262

Model No.	Mfg. No.	Description	Price/Each
HX262	CC-421	Voltage/Current Calibrator	289.00
HX263	CC-422	Current Calibrator	219.00
HX313	TC-920	Thermometer/Temperature Calibrator	259.00

mA & T/C SIMULATOR

MODEL HX264
- Simulates output ranges of 4 mA, 12 mA & 20 mA from transmitter
- Accurate to 0.1 mA
- Overload indication when load exceeds 240 Ω
- Compact case features push button output selector switch and bright red LEDs that indicate simulation output or battery status
- Complete with 9 V battery and calibration cable terminated with spade plugs
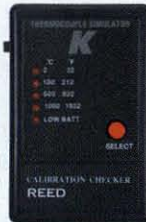
MODEL HX266
- Simulates 4 common values in °C and °F for checking K thermocouple devices
- Ranges: 32 °F (0 °C), 212 °F (100 °C), 932 °F (500 °C) and 1832 °F (1000 °C)
- Accuracy: ±(0.25 % + 1 °C or °F)
- Complete with 9 V battery and 60" calibration cable terminated with subminiature connector

HX264

HX266

REED

Model No.	Mfg. No.	Description	Price/Each
HX264	CC-MA	Current Loop Simulator	159.00
HX266	CC-TEMPK	Type K Thermocouple Simulator	139.00

INFRARED THERMOMETER

- Pocket-sized, troubleshooting infrared thermometer with laser sighting
- Temperature Range: -4° to 518 °F (-20° to 270 °C)
- User selectable °F or °C
- Fixed 0.95 emissivity covers 90 % of surface applications
- 6:1 Distance to Spot size ratio
- Built-in laser pointer identifies target area
- Auto data hold, Max hold and Auto shut off
- Overload and low battery indications

REED

Model No.	Mfg. No.	Description	Price/Each
HX364	IR-88	Infrared Thermometer	59.00

INFRARED THERMOMETER

- Fast and safe way to measure surface temperatures, without contact
- Easy to use - just point, shoot and read
- Temperature Range: 0° to 500 °F or -18° to 260 °C
- Fahrenheit/Celsius selectable
- Fixed emissivity of 0.95
- 6:1 Distance to Spot Size ratio
- Large LCD with backlight and display hold
- Model HN235 features laser sighting
- Carrying case extra

Raytek

Model No.	Mfg. No.	Description	Price/Each
HN235	RAYMT4U	Infrared Thermometer w/ Laser Sighting	89.00
HX034	RAYMTAPK	Soft Pouch w/ Wrist Strap	20.00

FOOD SERVICE INFRARED THERMOMETER

- Contact and non-contact food service thermometer
- Infrared thermometer features laser sighting
- Accepts any Type K thermo-couple probe with mini-connector
- Choice of 5 different colour faceplates - choose a different colour faceplate for each department or food category
- Large backlit LCD readout
- Max, Min, Diff and Avg displays
- Programmable Hi/Lo alarms
- Lock feature for continuous monitoring
- Includes holster/case

REED

Model No.	Mfg. No.	Description	Price/Each
IA432	PS200	IR Food Service Thermometer	115.00

INFRARED THERMOMETER

- Pocket-sized and easy-to-use - just point, shoot and read
- Unique flat surface and modern housing design
- User selectable °F or °C
- Built in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, auto data hold (when trigger released) and auto shut off
- Fixed 0.95 emissivity covers 90 % of surface applications
- 8:1 Distance to Spot size ratio
- Model HX242 Range: -58° to 536 °F (50° to 280 °C)
- Model HX243 Range: -58° to 1022 °F (50° to 550 °C)
- Includes battery and carrying case

REED

Model No.	Mfg. No.	Description	Price/Each
HX242	ST-880	Infrared Thermometer	89.00
HX243	ST-882	Infrared Thermometer	109.00

R29261E

INFRARED SENSORS

- Small sensing head fits where other sensors can't
- Ambient operating range to 85 °C (185 °F) without cooling
- Selectable outputs include: type J or K thermo-couples, 4-20, 0-20 mA or 0-5 VDC
- Adjustable emissivity from 0.100 to 1.100 by 0.001
- Selectable peak hold, valley hold and averaging functions
- 5-digit backlit LCD user interface
- 1% accuracy from -40° to 600°C (-40° to 1112°F)
- 10:1 optics
- Remote electronics box
- Optional RS-232 digital communications for remote setup and monitoring

Raytek

HX080

Model No.	Mfg. No.	Description	Price/Each
HX080	RAYMID10LT	Infrared Temperature Sensor, 1-m cable	**638.00**
IA089	RAYMID10LTCB3	Infrared Temperature Sensor, 3-m cable	**676.00**
IA090	RAYMID10LTCB8	Infrared Temperature Sensor, 8-m cable	**738.00**
IA091	RAYMID10LTCB15	Infrared Temperature Sensor, 15-m cable	**822.00**

INFRARED SENSORS

- Two models cover temperatures ranges from 0° to 500°C (32° to 932°F)
- Designed for easy integration into standard 4-wire systems
- J-type or K-type thermocouple output or 0-5 V output
- Same 50 Ω output impedance as a thermocouple so it functions without offset errors
- Fixed emissivity at 0.95
- 5:1 optics at 90% energy
- Rugged IP-65 NEMA-4 stainless steel housing

Raytek

HX101

Model No.	Mfg. No.	Description	Price/Each
HX101	RAYCI1A	Infrared Temperature Sensor, Type J Thermocouple Output	**315.00**
HX076	RAYCI2A	Infrared Temperature Sensor, Type K Thermocouple Output	**315.00**
HX077	RAYCI3A	Infrared Temperature Sensor, Linear Voltage Output, 10 mV/°C	**315.00**

INFRARED SENSORS

- Simple, two-wire connection is easily integrated into a closed system
- Configure individual sensors to your system point-to-point or multidrop up to 15 sensors on a single loop
- Two-way digital communications
- Simultaneous access to 4-20 mA and digital outputs
- Compact, rugged sensor with NEMA-4 (IP 65) rating
- Adjustable emissivity from 0.10 to 1.00
- 8 to 14 microns spectral response
- Wide temperature range from -18° to 500°C (0° to 932°F)
- Windows software for remote configuration and monitoring
- Advanced Peak/Valley Hold algorithms have been incorporated to support changing process variables. Adjust hold times, trigger thresholds, hysteresis settings, fail-safe, and out-of-range output signals remotely
- Choice of focus distances
- Special models for glass and plastics applications

Raytek

IA092

Model No.	Mfg. No.	Description	Price/Each
IA092	RAYTXSLTSF	Low Temperature Infrared Sensor w/ 33:1 Optics	**1919.00**
IA093	RAYTXSLTPSF	Low Temperature Infrared Sensor w/ 15:1 Optics	**1838.00**
IA094	RAYTXSLTCF1	Low Temperature Infrared Sensor, Close Focus 1	**1919.00**
IA095	RAYTXSLTCF2	Low Temperature Infrared Sensor, Close Focus 2	**1919.00**

PANEL METER & INFRARED SENSORS

- Two-piece temperature monitoring system that combines a compact monitor with an infrared sensing head
- Advanced processing capabilities including peak and valley hold, averaging, and a user-adjustable offset
- Compact 1/8 DIN monitor with 4-digit LED display
- User-defined 4-20 mA output
- Adjustable dual setpoints and deadband alarm outputs
- Universal 110-220 VAC power
- All monitor functions are configured via the front panel, including °C/°F switching
- Temperature range from -18° to 538°C (0° to 1000°F)
- Adjustable emissivity and t-ambient parameters
- Field interchangeable sensing heads
- GPR is a high performance, 8 to 14 micron infrared sensor with detachable cable that combines current loop driven signals with 35:1 optics

Raytek

IA087   **IA085**

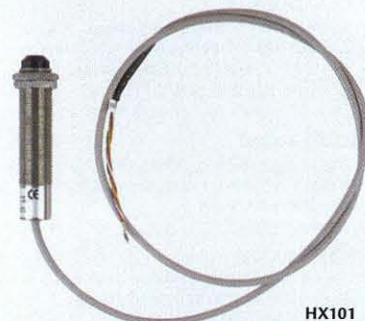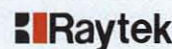| Model No.	Mfg. No.	Description	Price/Each
IA085	RAYGPC	Thermalert Monitor	**569.00**
IA086	RAYGPCM	Panel Mount Meter	**607.00**
IA087	RAYGPRSF	Regular Sensing Head, Standard Focus, 35:1 D:S Ratio	**1122.00**
IA088	RAYGPSSFL	Laser-sighted Sensing Head	**1613.00**

PSYCHROMETER

- Digital psychrometer and infrared thermometer in one unit
- Psychrometer calculates wet bulb, dew point and T1-T2
- Infrared thermometer measures surface temperatures from -40° to 932°F
- Infrared thermometer features built-in laser pointer, 8:1 distance to target ratio and adjustable emissivity
- Triple display with backlighting
- Max/Min Hold, °C/°F selectable and battery level indicators
- Retractable humidity sensor for protection during transport
- Optional RS-232 cable allows user to download readings
- Humidity Range: 0 to 100% RH
- Dew Point Range: -90° to 122°F (-68° to 50°C)
- Wet Bulb Range: -5° to 122°F (-21° to 50°C)
- Air Temp. Range: -4° to 122°F (-20° to 50°C)
- IR Temp. Range: -40° to 932°F (-40° to 500°C)

REED

Model No.	Mfg. No.	Description	Price/Each
IA038	8857	Psychrometer/Infrared Thermometer	**179.00**

PSYCHROMETER

- Simultaneous display with % RH, temperature and dew point or wet bulb or external probe temperature (requires IA108)
- Calculates T1-T2 (Air temp. - External probe temp.) (requires IA108)
- Triple display with backlighting
- Max/Min readings
- Sensor cap closes to protect probe during storage
- Model IA107 features a built-in datalogger (stores up to 99 data points)
- Retrieve Max/Min/Avg readings from stored data
- Real time clock
- Humidity Range: 0 to 100% RH
- Dew Point Range: -90° to 122°F (-68° to 50°C)
- Wet Bulb Range: -5° to 122°F (-21° to 50°C)
- Internal Temp. Range: -4° to 122°F (-20° to 50°C)
- External Temp. Range: -4° to 158°F (-20° to 70°C)

IA107

REED

Model No.	Mfg. No.	Description	Price/Each
IA000	8706	Digital Psychrometer	**109.00**
IA107	8726	Digital Psychrometer/Data Logger	**129.00**
IA108	87P6	Temperature Probe	**20.00**

R29262E

DIGITAL THERMOMETERS

- Temperature Range:
  -58 to 2000°F (-50 to 1300°C)
- User selectable °C or °F
- User selectable 0.1°C or
  1°C (0.1°F or 1°F) resolution
- Accuracy to 0.5%
- Display maximum
  reading plus Data Hold
- Large LCD display with backlight
- Accept K-type thermocouples
- Includes 9 V battery and holster
- Model HX382 is a dual input
  thermocouple thermometer
  that provides differential
  temperature measurements

REED

HX381   HX382

Model No.	Mfg. No.	Description	Price/Each
HX381	ST-610B	Single Input Thermocouple Thermometer	99.00
HX382	ST-612	Dual Input Thermocouple Thermometer	139.00

TYPE K THERMOCOUPLE PROBES

MODEL HN209
SURFACE PROBE

Ribbon-style surface probe.
Maximum Temperature: 400°C.

HN209

MODEL HN210
SPRING-LOADED
SURFACE PROBE

HN210

Spring loaded probe is ideal for
all high temperature surface measuring
requirements. Extremely fast response time.
Not recommended for use as an immersion probe.
Maximum Temperature: 500°C.

MODEL HN211 RIGHT
ANGLE SURFACE PROBE

HN211

Unique right angle design allows
temperature of hard to reach areas to be taken.
Great for monitoring temperature inside pipes, also flat surfaces
without keeping hands over heated area. Maximum Temperature: 400°C.

MODEL HN212
AIR/GAS PROBE

HN212

Specifically designed to measure
air or gases in heating and cooling units, ovens and engine exhausts. Perforated shield
permits fast response while providing exceptional element protection. Maximum
Temperature: 800°C.

MODEL HN213
NEEDLE TIP PROBE

HN213

Medium gauge hypodermic needle tip, used to measure softer food stuffs,
rubbers and solids. Ideal for use in industrial, laboratory and chemical
environments. Maximum Temperature: 800°C.

MODEL HN214
GENERAL
PURPOSE PROBE

HN214

Used to measure both air and liquids, but it is best recommended
for immersion applications: Excellent for checking temperature of
oils, water and non-corrosive fluids. Maximum Temperature: 700°C.

REED

Model No.	Mfg. No.	Description	Price/Each
HN209	LS-109	Surface Thermocouple Probe	78.00
HN210	LS-139	Spring-loaded Surface Thermocouple Probe	88.00
HN211	LS-104	Right-angle Surface Thermocouple Probe	98.00
HN212	LS-103	Air/Gas Thermocouple Probe	88.00
HN213	LS-134 A	Needle Tip Thermocouple Probe	78.00
HN214	LS-107	General Purpose Thermocouple Probe	78.00

R29263E

HEAT STRESS METER

- Wet Bulb Globe Temperature (WBGT) considers the effects
  of temperature, humidity and direct or radiant sunlight
- Heat Stress Index measures how hot it feels when humidity
  is combined with temperature, air movement and radiant heat
- Black Globe Temperature (TG) monitors the effects of direct
  solar radiation on an exposed surface
- In/Out function displays the WBGT
  value with or without direct sun exposure
- View individual temperatures or indices in either °F or °C
- User adjustable WBGT threshold with
  audible alarm if threshold is exceeded
- Built-in RS232 interface
- Tripod mount design for long term monitoring

REED

SPECIFICATIONS:

Air Temp. Range:	0.0 to 50.0°C (32 to 122°F)
Black Globe Temp. Range:	0.0 to 80.0°C (32 to 176°F)
WBGT Temp. Range:	0.0 to 50.0°C (32 to 122°F)
Humidity Range:	0 to 100% RH

Model No.	Mfg. No.	Description	Price/Each
IA639	8778	Heat Stress Meter	225.00
IA447	BS-6	Tripod	59.00
HX515	HR33	33% Humidity Calibration Standard	60.00
HX514	HR75	75% Humidity Calibration Standard	60.00
IA452	VZRS232BN	RS-232 Cable & Software	79.00

INDOOR AIR QUALITY METER

- Simultaneously monitors carbon dioxide (CO_2), relative humidity and
  temperature dew point and wet-bulb temperatures can also be displayed
- High resolution LCD with backlight display
- Displays STEL readings (short-term exposure limit) over a 15-minute period
  and TWA readings (Time-weighted average) over a period of 8 hours
- Maximum, minimum and average functions
- Audible warning alarm of excessive CO_2 concentrations
- RS-232 serial interface

REED

SPECIFICATIONS:

CO₂ Range:	0 to 5,000 ppm
Resolution:	1 ppm
Accuracy:	±5% rdg. ±50 ppm
Temperature Range:	-10 to 60°C (14 to 140°F)
Resolution:	0.1°C/°F
Accuracy:	±0.6°C (±0.9°F)
Humidity Range:	0 to 99.9% RH
Resolution:	0.1% RH
Accuracy:	±3% RH @ 25°C (10 to 90% RH), ±5% RH <10% & >90%
Dew Point Range:	-73.4 to 60°C
Wet Bulb Range:	-13.3 to 60°C
Response Time:	30 seconds
Power Supply:	4 x "AA" alkaline batteries
Battery Life:	24 hours

Model No.	Mfg. No.	Description	Price/Each
IA645	77535	Air quality meter	495.00

TEMP/RH DATA LOGGER

- Dual input
- Triple display
- 16,000 record data logger
- Max/Min/Hold functions
- Timer function
- Auto power off
- Temperature Range/Accuracy:
  -4° to 140°F: ± 1.4°F/-20°C to 60°C: ± 0.7°C;
  -328° to 2498°F: ± 0.3% rdg. +2°F
  -200° to 1370°C: ± 0.3% rdg. +1°C
- Humidity Range/Accuracy:
  0 to 100% RH/± 2.5% RH
- Includes battery, manual,
  carrying case, K-type
  bead sensor, RS232 cable
  and *Windows* software

REED

Model No.	Mfg. No.	Description	Price/Each
IA103	C-314	Thermo-Hygrometer/Datalogger	339.00

OFFICE PRODUCTS | **INSTRUMENTS, SCALES & ELECTRICAL** | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1415

INSTRUMENTS

PRE-PROGRAMMED THERMOMETER/TIMER

- Pre-programmed cooking temperatures for different meats and tastes
- Select taste setting: Rare to Well done
- Displays preset and internal cooking temperatures
- Stainless steel probe with 1 m heat resistant wire
- °C /°F switchable
- Temperature Range: -10° to 200°C (14° to 392°F)
- Weight: 6.4 oz
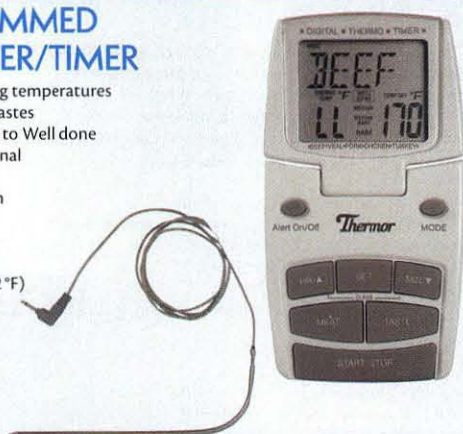
Thermor

Model No.	Mfg. No.	Description	Price/Each
HX158	DT100	Thermometer/Timer	29.00

INDOOR/OUTDOOR THERMOMETER W/CLOCK

- Registers both indoor and outdoor temperatures with Min/Max memory
- 12-hour clock
- Wide temperature range: -50 to 70°C
- Full 1" high LCD digits
- 10' cable to remote temperature sensor
- Desk mount or wall mount by two sided tape or screws
- Operated by single "AAA" size battery (included)
- Dimensions: 4" x 4" x 3/4"

Thermor

Model No.	Mfg. No.	Description	Price/Each
HA285	119	Thermometer w/Clock	39.00

INDOOR/OUTDOOR DIGITAL THERMOMETER

- Maximum/Minimum registering
- Triple Display Indoor/Outdoor Time
- 10' Wire probe
- °F and °C Switchable

Thermor

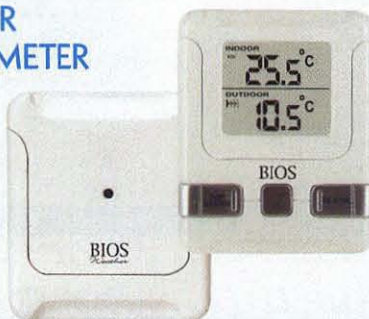| Model No.	Mfg. No.	Description	Price/Each
IA503	DG900	Indoor/Outdoor Digital Thermometer	13.00

INDOOR/OUTDOOR WIRELESS HUMIDEX THERMOMETER

- Displays humidex and heat index
- Humidex and heat index is a combination of temperature and humidity into one number to reflect perceived temperature
- Heat stress index scale
- Indoor and outdoor temperature
- Outdoor humidity
- Min/max memory
- °C and °F switchable
- Wireless transmission range: 45 m/150'

BIOS Diagnostics

Model No.	Mfg. No.	Description	Price/Each
IA504	260BC	Wireless Humidex Thermometer	63.00

INDOOR/OUTDOOR WIRELESS THERMOMETER

- Indoor and outdoor temperature
- Min/max memory
- °C and °F switchable
- Wireless transmission range: 30 m/100'

BIOS Diagnostics

Model No.	Mfg. No.	Description	Price/Each
IA505	261BC	Indoor/Outdoor Wireless Thermometer	39.00

INDOOR THERMOMETER FOR HUMIDITY & TEMPERATURE

- Indoor temperature and relative humidity
- Min/max memory
- °C and °F switchable

BIOS Diagnostics
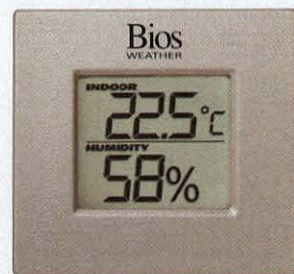
Model No.	Mfg. No.	Description	Price/Each
IA506	263BC	Thermometer for Humidity & Temperature	22.00

INDOOR HYGROMETER WITH BIOS COMFORT SCALE

- Bios comfort scale indicates ideal humidity range for home and personal health
- Indoor temperature
- Min/max memory
- °C and °F switchable

BIOS Diagnostics

Model No.	Mfg. No.	Description	Price/Each
IA497	258BC	Indoor Hygrometer	29.00

Call us for quantity pricing!

VARIABLE ANGLE INDUSTRIAL THERMOMETERS

- V-shape case, moulded of *GE Valox* polyester, is 9" in length. Heavy glass protected front firmly secured against rattles by spring action
- For 3-1/2" stems only and ranges up to and including 300°F, the stem material is a precision die cast *Zamac* alloy
- Adjustable case locknut and angle adjusting screw work independently to provide a full 360° positioning of thermometer case and stem
- Adjustable joint completely encloses capillary to prevent tampering and foreign matter for entering instrument
- Tube and capillary are blue spirit filled-magnifying lens "blue reading" tube. Precision made to guarantee accuracy within 1% of scale range. Silicone shock mounted for lasting durability.
- Scale is locked in place and adjusted through top of scale

IA374

REED

Model No.	Mfg. No.	Description	Price/Each
IA370	9VU35-115	Industrial Thermometer, -40 to 110°F/-40 to 93°C	49.00
IA371	9VU35-125	Industrial Thermometer, 0 to 120°F/-17 to 49°C	49.00
IA372	9VU35-165	Industrial Thermometer, 0 to 160°F/-17 to 71°C	49.00
IA373	9VU35-185	Industrial Thermometer, 30 to 180°F/-6 to 82°C	49.00
IA374	9VU35-245	Industrial Thermometer, -40 to 240°F/0 to 114°C	49.00
IA375	9VU35-305	Industrial Thermometer, 30 to 300°F/0 to 149°C	49.00

STEM THERMOMETER

- Large, easy-to-read LCD
- Fahrenheit/Celsius switchable
- Range: -40° to 450°F (-40° to 230°C)
- Accuracy: 0° to 230°F: ± 1.0°F; < 0°F: ± 3.6°F; > 230°F: ± 3.6°F
- Resolution: 0.1°F/°C
- 5" stainless steel stem
- Handy nylon case with shirt pocket clip included

Thermor

Model No.	Mfg. No.	Description	Price/Each
HD558	PS100	Digital Stem Thermometer	24.00

STEM THERMOMETER

- 1" diameter pocket thermometer
- Easy-to-read LCD numerals
- Fahrenheit/Celsius switchable
- Range: -40° to 302°F (-40° to 150°C)
- Accuracy: ± 2°F or ± 1°C
- 5" stainless steel stem
- Immerse stem at least 1" for accurate readings
- Handy nylon case with shirt pocket clip included

Thermor

Model No.	Mfg. No.	Description	Price/Each
HX502	DT130	Digital Stem Thermometer	19.00

SURFACE THERMOMETERS

- Specifically designed to be used on horizontal or ferrous non-horizontal surfaces
- Two alnico magnets that act as the thermometer's base and hold it in place on ferrous surfaces
- Bimetallic sensor is a specially processed alloy that is preconditioned and pretested for permanent calibration and maximum stability
- Sensor is located in a draft shield and is in virtual thermal contact with the surface to be measured
- Sensing equilibrium (stability) is reached within three minutes and is accurate to ± 2% of full scale

HB592

REED

Model No.	Mfg. No.	Temperature Range	Divisions	Price/Each
HB592	312FC	0° to 250°F/-20° to 120°C	2°F/1°C	29.00
HB598	314FC	50° to 750°F/10° to 400°C	10°F/5°C	29.00

BI-METAL THERMOMETERS

- All welded stainless steel construction
- Easy external recalibration adjustment
- 3" diameter anti-parallax dial
- Hermetically sealed per ASME B40.3
- Accurate to 1% per ASME B40.3 Grade A
- Over-range protection is 50% up to 500°F
- 1/2" NPT straight connection

IA266

REED

Model No.	Mfg. No.	Description	Price/Each
IA266	T30025-250	0 to 250°F/-20 to 120°C, 2-1/2" stem	35.00
IA268	T3004-250	0 to 250°F/-20 to 120°C, 4" stem	35.00
IA270	T3006-250	0 to 250°F/-20 to 120°C, 6" stem	35.00
IA272	T3009-250	0 to 250°F/-20 to 120°C, 9" stem	35.00
IA267	T30025-550	50 to 550°F/0 to 260°C, 2-1/2" stem	35.00
IA269	T3004-550	50 to 550°F/0 to 260°C, 4" stem	35.00
IA271	T3006-550	50 to 550°F/0 to 260°C, 6" stem	35.00

WATERPROOF DIGITAL STEM THERMOMETER

- Temperature Range: -40 to 450°F (-40 to 230°C)
- Accuracy: ± 0.5°C (± 1°F)
- Fahrenheit/Celsius selectable via push button
- Compact pen-style design
- Stainless steel stem
- On-site calibration possible
- Waterproof construction and maximum temperature memory make this thermometer ideal for verifying dishwasher temperatures
- Includes protective case that has internal cooking temperatures of most common meat products conveniently printed on its face

Thermor

Model No.	Mfg. No.	Description	Price/Each
IA542	DT131	Digital Stem Thermometer	22.00

MAX/MIN THERMOMETER

- Temperature Range: -40° to 50°C (-40° to 120°F)
- Thermometer registers highest and lowest readings from last setting
- Pushbutton reset releases limit markers
- Plastic case measures 2 3/16" W x 3/4" D x 8" H

Thermor

Model No.	Mfg. No.	Description	Price/Each
HK214	TR400	Maximum/Minimum Thermometer, °C et °F	10.00

Call us for all your Instrument & Electrical requirements!

EXIT

| OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE |

1417

R25313E

INSTRUMENTS

THERMO-HYGROMETER

- Dual function digital thermometer/hygrometer
- Dual LCD, displays ambient temperature and humidity simultaneously
- Humidity Range: 10 % to 95 %RH
- Temperature Range: 0 to 50 °C/32 to 122 °F
- Data Hold, Min/Max function and Auto shut off
- RS232 serial interface
- Humidity probe and battery included

IA107

REED

Model No.	Mfg. No.	Description	Price/Each
HX341	YK-90HT	Thermo-Hygrometer	285.00
HX312	SW-U801-WIN	Data Acquisition Software	89.00
HX316	UPCB-02	RS-232 Cable	30.00
HN416	CA-05 A	Soft Carrying Case	21.00

THERMO-HYGROMETER

- Dual LCD display shows ambient temperature and relative humidity
- Humidity Range: 10 % to 95 % RH
- Temperature Range: 0° to 50 °C/ 32° to 122 °F
- User selectable °C/°F
- Data Hold and Min/Max function
- Compact and lightweight
- Battery included

HX287

REED

Model No.	Mfg. No.	Description	Price/Each
HX287	LM-81HT	Thermometer-Hygrometer	99.00
HN413	CA-52 A	Soft Carrying Case	15.00

THERMO-HYGROMETER

FEATURES:
- All in one, pen type, easy carryout
- Hold function to freeze display value
- Built in reverse display button
- Temperature unit: °C/°F (internal adjustment)
- Humidity measurement with fast respnse time

SPECIFICATIONS:

Humidity Range:	10 % to 100 % RH
Temp. Range:	0° to 50 °C
Power Supply:	1 x DC 1.5 V battery (UM-4, AAA) x 4

REED

Model No.	Mfg. No.	Description	Price/Each
IA424	PHT-316	Humidity/Temp Meter	99.00

THERMO-HYGROMETER

COMPACT THERMO-HYGROMETER WITH INTEGRAL PROBE FOR CONVENIENT ONE-HAND OPERATION

- Dual LCD readout shows ambient temperature and relative humidity
- User selectable °F/°C
- Min/Max memory for both functions
- Data hold and Relative functions
- Auto power off
- Includes battery
- Humidity Range: 0 to 100 % RH
- Temperature Range: -4 to 140 °F (-20 to 60 °C)

REED

Model No.	Mfg. No.	Description	Price/Each
IA441	C-315	Thermo-Hygrometer	139.00

THERMO-HYGROMETER

- Type K Temperature Range: -20° to 1000°C (-4° to 1832°F)
- °C/°F selectable
- Humidity Range: 0 to 100 % RH
- Resolution to 0.1° up to 200°, 1° over 200°
- Fast sampling time
- Auto power off
- Dual, easy-to-read backlit LCD
- Data hold and Max hold
- Humidity probe and 9 V battery included

REED

Model No.	Mfg. No.	Description	Price/Each
HX383	ST-615	Type K Thermometer/Hygrometer	159.00

THERMO-HYGROMETER

COMBINATION INFRARED THERMOMETER & HYGROMETER

- Temperature Range: -50° to 500°C/-58° to 932°F
- Humidity Range: 0 to 100 % RH, 0.1 % RH resolution
- Fixed emissivity of 0.95 covers 90 % of surface applications
- User selectable °C or °F
- Built-in laser pointer and 8:1 distance to spot ratio
- Large, easy to read backlit LCD with dual display
- Max and Hold functions
- Auto shut off
- Carrying case, humidity probe and 9 V battery included

INFRARED TEMPERATURE MEASUREMENT

REED

Model No.	Mfg. No.	Description	Price/Each
HX384	ST-616CT	Infrared Thermometer/Hygrometer	179.00

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

TEMP/RH DATA LOGGER

MODEL IA100:

- Records temperature and relative humidity
- Temperature Range:
  -40° to 85°C (-40° to 185°F)
- Humidity Range: 0 to 100 % RH
- °F or °C selectable
- LCD display
- Logs data for days, weeks or months
- Programmable sampling rate
  from 1 second to 2 hours
- Three start modes: scheduled,
  immediate or magnetic
- Records up to 16,000 readings
- Real-time clock stores data and time
- Data is retained in non-volatile memory
- User-defined min/max alarm settings
- Thermistor style sensor

MODEL IA101:

- Kit includes docking station,
  RS-232 cable and *Windows*®
  compatible software
- Enables user to log data, create
  graphs and program **IA100**

MODEL IA102:

- Self-standing, battery-operated
  programming unit and printer,
  eliminates the need for a PC
- Enables user to download,
  print or graph the logged
  data anytime, anywhere

IA101

IA102
Shown with IA100 not included

IA100

REED

Model No.	Mfg. No.	Description	Price/Each
IA100	8829	Temperature/Humidity Data Logger	129.00
IA101	8818	Data Logger Kit	59.00
IA102	9801	Printer	299.00

TEMP/RH DATA LOGGER

**MONITORS BOTH AMBIENT
TEMPERATURE & RELATIVE HUMIDITY**

- Stores up to 16,000 temperature
  and 16,000 humidity readings
- User selectable measurement
  rate from 2 seconds to 24 hours
- Alarm display if user-defined
  max/min values are exceeded
- Displays all status information through two LEDs
- Simply plug the logger into the USB port
  of your computer to begin downloading -
  no cables or wires are required
- Includes wall mount bracket and
  Windows® compatible software
- Temperature Range: -40 to 70°C (-40 to 158°F)
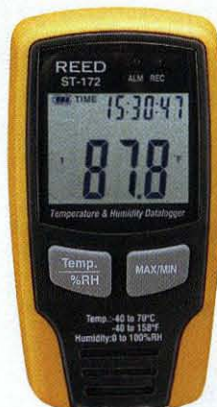- Humidity Range: 0 to 100 % RH

**Wall mount
bracket
included**

REED

Model No.	Mfg. No.	Description	Price/Each
IA449	ST-171	Temperature/Humidity Data Logger	89.00

PSYCHROMETERS

- Calculate relative humidity and dew point
- Read temperatures from a matched pair
  of precision organically-filled thermometers
- Measure temperatures from 10° to 120°F or -15° to 45°C
- Miniature fan inside the case ventilates the wet bulb
- Choose from °F or °C models
- Each unit comes with one 2 oz. water bottle;
  psychrometric slide rule, chart and tables; extra
  lamp and wicking material;
  instruction manual; and a
  high-impact, moulded
  carrying case

HB163

REED

Model No.	Mfg. No.	Description	Price/Each
IA257	22014	Psychrometer, °F	237.00
HB163	22000	Psychrometer, °C	237.00

TEMP./RH DATA LOGGER

- Records up to 32,700 ambient temperature and
  relative humidity readings
- User selectable recording intervals from 1 s to 24 h
- Minimum/Maximum function with alarm
- Real-time clock stores data and time
- LCD readout displays current
  temperature (°F or °C) or
  humidity reading, min/max
  reading with date and time
- Download data directly to
  a PC via USB cable supplied
- Includes data logger, mounting bracket
  with screws, USB cable, software
  diskette, security lock and battery
- Temperature Range: -40 to 70°C (-40 to 158°F)
- Humidity Range: 0 to 100 % RH

REED

Model No.	Mfg. No.	Description	Price/Each
IA680	ST-172	Temperature/RH Data Logger	149.00

TEMP/RH TRANSMITTER

- Designed to continuously monitor
  ambient temperature and humidity
- Transmits both temperature and
  relative humidity data to any
  controller to provide feedback
  on user-defined settings
- Selectable 4-20 mA current
  or 0-1 V, 0-2 V, 0-5 V outputs
- Easy to setup and operate
- Wall mountable
- Temperature Range:
  0° to 85°C (32° to 185°F)
- Humidity Range:
  0 to 100 % RH

REED

Model No.	Mfg. No.	Description	Price/Each
IA104	3501	Temperature/RH Transmitter, 4-20 mA output	179.00

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1419

INSTRUMENTS

HANGING HYGROMETER

- Measures relative humidity by comparing readings of wet bulb and dry bulb thermometers
- Accuracy obtained by creating rapid air circulation around bulbs
- Non-mercury red spirit filled thermometers
- Range: -10 to 130°F (-5 to 50°C)
- Plastic moulded case
- Plastic reservoir
- Dimensions: 4" x 10"

REED

Model No.	Mfg. No.	Description	Price/Each
IA528	WD-5	Wet Buld/Dry Buld Hygrometer	39.00

DIAL THERMO-HYGROMETER

- 5" diameter stainless steel dial
- Flange mounting
- Bi-metallic temperature sensor
- Temperature Range: 0 to 120°C, 1°C divisions
- ±1% temperature accuracy
- Synthetic hair hygrometer
- Humidity Range: 0 to 100% RH, 2% RH divisions
- ±5% humidity accuracy
- On-site adjustments possible

REED

Model No.	Mfg. No.	Description	Price/Each
IA532	TH600	Dial Thermo-Hygrometer	49.00

MOISTURE DETECTOR

- Detects moisture content in building materials of all kinds, as well as detects moisture distribution in walls, ceilings and floors
- Non-destructive - moisture sensor runs smoothly over the surface being tested without scratching or penetrating the surface
- Display Hold button
- Max/Min function with alarm indication
- LCD display with backlighting
- Low battery indication with auto power off
- Measuring Range: 0.0 to 100.0% Moisture Content
- Penetration Depth: 20 to 40mm

REED

Model No.	Mfg. No.	Description	Price/Each
IA681	ST-128M	Moisture Detector	199.00

TEMPERATURE & HUMIDITY RECORDERS

- Records temperature and humidity on a 6" diameter chart
- Programmable recording times and temperature ranges
- Panel mountable, DIN sized enclosure
- Options include digital display remote probe, and audible alarm
- AC power with battery back-up
- Includes pens, battery, and 120 VAC adapter
- Temperature Range:
  IA529/IA530: 32 to 100°F, 0 to 50°C;
  IA531: 0 to 50°C, 0 to 100°F, 0 to 185°F, 0 to 85°C
- Humidity Range: 0 to 95% RH (non-condensing)

IA531

DICKSON

Model No.	Mfg. No.	Description	Price/Each
IA529	TH621	Basic Temp/RH Recorder	612.00
IA530	TH622	Temp/RH Recorder w/ Display & Probe	715.00
IA531	TH623	Temp/RH Recorder w/ Display, Probe & Alarm	857.00

TEMPERATURE & HUMIDITY RECORDER

- Simultaneously records ambient temperature and relative humidity conditions
- Full cycle recording allows recording all the way around the cylindrical drum
- 24-hour model
- Provides maximum and minimum values
- Built-in quartz clock drive
- Slide system for simplified clock setting
- Bi-metallic coil temperature sensor
- De-fatted hair humidity sensor
- Desk or wall mountable
- Temperature Range: -15 to 40°C
- Humidity Range: 0 to 100% RH
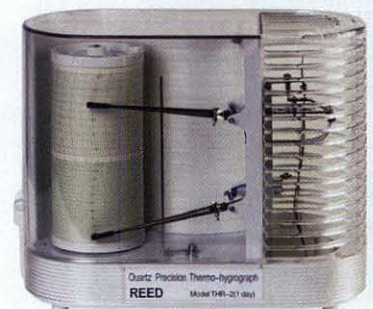
REED

IA409

Model No.	Mfg. No.	Description	Price/Each
IA409	THR-2	Thermo-Hygrograph, 1-day	595.00
IA630	THR-2-Charts	Replacement Charts, 1-day (100/pkg.)	49.00

TEMPERATURE RECORDERS

- 4-digit display and 3-button keypad make configuration changes fast and easy
- User interface provides access to test and calibration facilities with dual function MODE switch
- Up to 2 pens available, each with configurable spans
- Just one jumper to configure each input port
- 10" chart rotates at user selectable speeds
- NEMA 3 case standard

Input Type	Temp. Range
Type J T/C:	0/760°C (0/1400°F)
Type K T/C:	0/1360°C (0/2500°F)
Type T T/C:	-200/400°C (-330/750°F)
Type R T/C:	200/1650°C (400/3000°F)
Type S T/C:	200/1650°C (400/3000°F)
100 Ω Plat. RTD:	-140/400°C (-220/750°F)
DC Current:	0-20 mA, 4-20 mA
DC Voltage:	0-25 mV, 50 mV, 10-50 mV, 0-5 V, 1-5 V

IA096

Partlow

Model No.	Mfg. No.	Description	Price/Each
IA096	51000011	One Pen Temperature Recorder	995.00
IA097	51100011	Two Pen Temperature Recorder	1350.00

MOISTURE METER

- Ideal for use on any construction site
- Measures the moisture content of sawn timber (also cardboard and paper) and hardened materials like plaster, concrete and mortar
- Measuring Range: Wood: 6 to 44 %; Material: 0.2 to 2.0 %
- Accuracy: Wood: ± 1 %; Material: ± 0.05 %
- Average adjustment for European wood based on a wood temperature of 20 °C
- Impact-proof plastic housing
- Auto power-off
- 8 mm long integrated electrode is replaceable

REED

Model No.	Mfg. No.	Description	Price/Each
IA533	ST-123	Moisture Meter	89.00

PAPER MOISTURE METER

- Electrical resistance-type moisture meter
- Contact pins mounted on the top of the meter are used for making direct contact with the material
- Various external electrodes are also available for specific applications
- Three scales for testing various paper stock, cores and corrugated (4.3 to 18 %); 5 to 40 % baledscrap paper; and a 0 to 100 % arbitrary scale for obtaining relative moisture indications on other material
- Set point with buzzer to alert you when a pre-selected % moisture content has been reached
- Stores up to 100 readings and displays the average and highest of the stored readings
- Built-in calibration check

DELMHORST
INSTRUMENT CO

Model No.	Mfg. No.	Description	Price/Each
IA110	P-2000	Paper Moisture Meter	529.00

SKIPPER PLUS MARINE MOISTURE METER

- Non-destructive detection and measurement of moisture in GRP (glass reinforced plastic) and wooden boats
- Deep signal penetration of 30 mm (1.25") to detect elevated moisture through most covering and coating materials and deep into the core of composite hulls without having to damage or puncture the material being tested
- Three measurement ranges optimized for testing of different material such as hardwood (5 to 30 %), GRP and surface moisture (0 to 100 comparative scale)
- Because salt water is more conductive than fresh water, there are three different ranges of sensitivity to allow testing of wood or GRP in either fresh or salt water
- External rubber electrodes in direct contact with material being tested
- Large, clear, easy-to-read display
- Hold function allows user to "freeze" the reading
- High moisture audio warning tone
- Automatic power off conserves battery life

TRAMEX

Model No.	Mfg. No.	Description	Price/Each
IA534	SMP	Moisture Meter	627.00

INSPECTION CAMERA

- Comfortable pistol grip design and forward facing controls make it easy to detect and diagnose the unreachable
- High visibility 3.2" colour TFT LCD monitor with 320x240 pixel resolution
- Flexible gooseneck imager head retains configured shape and is waterproof (IP67)
- High visibility 10° adjustable LED lighting
- Camera and video functions allows you to save high resolution JPG images and live video
- Transfer files to a computer via USB cable and optional 2GB SD memory card
- Rechargeable lithium-ion battery
- Viewing Distance: 15cm to 25 cm (5.9" to 9.8")
- TV compatible • Viewing Angle: 0 to 180°
- Camera Diameter: 17mm (0.66"); Length: 1m (39")
- Includes video borescope, imager head, magnet, hook and mirror attachments, 3.7V lithium battery, DC power supply, USB cable, video output cable, user manual and hard carrying case

REED

Model No.	Mfg. No.	Description	Price/Each
IA674	BS-150	Video Inspection Camera	259.00
IA675	BS-150-2GBSD	2GB SD Memory Card	29.00
IA678	BS-C3	3' Cable Extension	35.00
IA679	BS-C6	6' Cable Extension	70.00

WOOD MOISTURE METER

- Three new pin-type wood moisture meters that are ideal for any woodworking application
- Reads surface and core moisture content, giving you key information about a board's uniformity and moisture distribution
- Use the integral electrode pins or attach any *Delmhorst* electrode to the built-in connector
- model **HM165*** corrects for individual species and temperature and averages up to 100 accumulated readings. Moisture content range: 6 to 40%.
- Model **HF940** features 12 LEDs that are great for reading in direct sunlight or dark areas. Moisture content range: 6 to 30%.
- Model **HM166*** offers an analog readout in a great new case design. Moisture content range: 6 to 30 %.

* Available as a package. All packages include meter, deluxe carrying case, 26-ES electrode and extra contact pins.

DELMHORST
INSTRUMENT CO

Model No.	Mfg. No.	Description	Price/Each
HM165	J-2000	Wood Moisture Meter, Digital Display	390.00
HF940	J-LITE	Wood Moisture Meter, LED	192.00
HM166	J-4	Wood Moisture Meter, Analog Display	318.00

COATING THICKNESS GAUGE

- Measure the thickness of non-magnetic coatings on magnetic or non-magnetic substrates
- Choice of remote probe; F probe measures the thickness of non-magnetic coatings on magnetic substrates; N probe measures the thickness of non-magnetic coatings on non-magnetic substrates
- Automatic calibration and probe recognition
- Large, easy-to-read LCD provides exact readings without guessing or errors
- µm/mil conversion switch
- Measuring Range: 0 to 1000 µm, 0 to 40 mil

Model No.	Mfg. No.	Description	Price/Each
IA673	CM-8822	Coating Thickness Gauge	495.00
IA682	VM-USB	USB Cable & Software	129.00

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1421

R29267E

THICKNESS GAUGE

MODEL THZ392

- Simply touch the probe to one side of the material and read its thickness
- Drag the probe along the surface of the material and scan for the thinnest reading
- Backlit display is easy to read, even in dim light
- Bar graph indicates signal strength
- Measuring Range: 0.025 to 19.999" (0.63 to 500 mm)

MODEL THZ330

- **Alarm mode**: If a measurement falls below minimum specified value, red LED lights and beeper sounds; green LED lights to indicate an acceptable thickness
- **Differential mode**: Unit displays positive or negative difference of your minimum specified value
- RS232 data port

MODEL THZ331

- All of the features of model **THZ330**
- Automatically stores up to 1000 readings with numeric location codes

THZ329

DAKOTA INSTRUMENTS

Model No.	Mfg. No.	Description	Price/Each
THZ329	MX-3	Ultrasonic Thickness Gauge	1395.00
THZ330	MX-5	Ultrasonic Thickness Gauge	1895.00
THZ331	MX-5DL	Datalogging Ultrasonic Thickness Gauge	2327.00

THICKNESS GAUGE

- Measures the wall thickness of materials from one side
- Single or two point adjustment
- HiLo alarm audibly and visibly alerts when measurements exceed user selected limits
- Internal memory stores up to 250 readings
- Scan Mode has a measurement rate of 20 readings per second with on-screen max and min
- Large, graphic flip display with backlight
- Two-button menu-driven user interface
- Pre-programmed velocities
- 5 MHz 1/4" dual element transducer
- Automatic V-path compensation for thin materials
- Built-in infrared port for wireless printing
- RS232 port for downloading
- Zero plate for automatic zeroing
- Complete with transducer, 2 "AA" batteries and couplant in a carrying case
- Measuring Range: 0.040 to 5.000"; 1.00 to 125.00 mm

DEFELSKO

Model No.	Mfg. No.	Description	Price/Each
HX173	UTG	Ultrasonic Thickness Gauge	2127.00

THICKNESS GAUGE

- Exclusive micro-computer LSI circuit and crystal time base offer high accuracy
- Digital display provides exact readings without guessing or errors
- Broad band receiving sensitivity means the meter can read probes of different frequencies
- Auto calibration
- Automatic material calibration
- Selectable metric or imperial
- Measures the thickness of steel, cast iron, aluminum, red copper, zinc, quartz glass, polyethylene, PVC, gray cast iron and nodular cast iron
- Display sound velocity at the touch of a button (**HX399**)
- Measuring Range: 1.5 to 200 mm in #45 steel

REED

Model No.	Mfg. No.	Description	Price/Each
HX399	TM-8811	Ultrasonic Thickness Gauge	495.00

DUROMETER

- Digital durometer for Shore A hardness testing
- Designed to measure the penetration hardness of rubber, elastomer and other rubber like substances such as neoprene, silicone and vinyl
- Pocket-sized model with integrated probe
- Measures maximum value
- Calculates average value
- Push button zero calibration
- Bright, clear, 4-digit, 10 mm high LCD readout
- Meets DIN 53505, ASTM D2240, ISO 7619 and JISK 7215

SPECIFICATIONS:

Measuring range:	0 to 90 HA
Résolution:	0.1 HA
Deviation:	± 1 HA

REED

Model No.	Mfg. No.	Description	Price/Each
IA632	HT-6510A	"A" Scale Durometer	495.00

DUROMETER

- Models feature a heat-treated, high carbon steel mainspring that is calibrated to meet or exceed ASTM Specification D2240-81
- Special cam permits a scale deflection of 100 points when the indenter is displaced exactly 0.100 inch
- Dial scale is extended over 240 circular degrees, accurate to within ± 1 division
- Threaded mounting knob at the top of each durometer permits permanent test stand emplacement
- Resettable ancillary pointer will register the peak durometer reading against all vibrations met in normal use

HB548

MODEL HB548

- "A" Scale durometer measures the indentation hardness of rubber, elastomers, and other rubber-like substances such as neoprene, silicone, vinyl and butyl. It can also be used for soft plastics, felt leather and similar materials

HB538

MODEL HB549

- "D" Scale durometer is designed for hard plastics - polystyrenes, vinyls, Formica, Plexiglas - hard rubbers and phenolic moulded materials

MODEL HB538

- Foam and sponge rubber durometer measures the hardness of soft materials such as foam rubber, sponge rubber, jells and doughs
- Classifies cellular rubbers of the sponge and foam type as "x-soft", "soft", "medium" and "firm", and then divides these ranges into smaller increments

PTC

Model No.	Mfg. No.	Description	Price/Each
HB548	306L	"A" Scale Durometer	654.00
HB549	307L	"D" Scale Durometer	654.00
HB538	302SL	Sponge Rubber Durometer	707.00

STEEL HARDNESS TESTER

- Designed for accurate, rapid in place measurement of the hardness of steel and steel alloys in the range from 20 to 65 on the equivalent Rockwell C Scale
- Unit consists of two major components: calibrated indenter and direct reading microscope
- Hand-held impact indenter drives a 1/16" diameter tungsten carbide ball into the sample being tested
- Resulting indentation diameter is measured with 60X microscope
- Calibrated reticle in the microscope reads C Scale directly with an accuracy of ± 1.5 points
- Illumination system features a *MagLite* flashlight with a fiber optic pipe that directs the light to the focus of the microscope
- Flat or curved surfaces of virtually any configuration may be measured
- Particularly useful where the test piece is too large or too heavy to test on bench-type tester

PTC

Model No.	Mfg. No.	Description	Price/Each
HB605	316	Steel Hardness Tester	1072.00

R25322E

SOUND LEVEL METER

- Meets IEC 651 Type 1 specifications
- 3 ranges, 30 to 130 dB,
- MAX HOLD, DATA HOLD
- A/C frequency weighting
- Fast/Slow time weighting
- AC output
- Internal 94 dB calibration

REED

Model No.	Mfg. No.	Description	Price/Each
HN404	SL-4022	Sound Level Meter	459.00

SOUND LEVEL METER

- Dual range measurement (Hi/Lo)
- A and C frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- Internal 94 dB calibration
- RS232 computer interface
- AC/DC output signal for use with dataloggers
- Data Hold, Max Hold functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes carrying case, windshield ball and battery
- Measuring range: 30 to 130 dB (A and C)

REED

Model No.	Mfg. No.	Description	Price/Each
HX390	ST-8850	Sound Level Meter	239.00

NOISE DOSIMETER

- Measure % noise dose / exposure time / sound level
- Conforms to ANSI S1.25-1991, A weighting
- Peak 140 dbA and 115 dBA RMS flags
- Stores data for up to 5 separate events
- Real time clock with calendar
- RS232 interface
- Includes Windows™ software, RS-232 cable, 9-pin to 25-pin gender changer
- Noise Dose Range: 0 to 99.99% DOSE
- Criterion Level: Selectable 80, 84, 85, 90 dB
- Threshold Level Selectable from 70 to 90 dB in 1dB steps
- Exchange Rate: Selectable 3dB, 4dB, 5dB or 6dB
- Sound Level Range: 70 to 140 dBA

TES

Model No.	Mfg. No.	Description	Price/Each
IA665	TES-1355	Datalogging Noise Dosimeter	561.00

SOUND LEVEL METER

- Auto or manual ranging (3 ranges)
- A and C frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- Internal 94 dB calibration
- RS232 computer interface
- Data Hold, Max Hold, Max/Min functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes battery
- Measuring range: 30 to 130 dB (A and C)

MODEL HX312

- *Windows* 95, 98, Me and XP compatible software
- Memory stores up to 12,280 records of Lp data
- Wide linearity range of 100 dB
- Real-time clock with calendar
- RS-232 interface

IA154

REED

Model No.	Mfg. No.	Description	Price/Each
HX311	SL-4012	Sound Level Meter	355.00
IA154	SL-4012K	Sound Level Meter w/Software, Cable and Case	595.00
HX312	SW-U801-WIN	Data Acquisition Software	89.00

SOUND LEVEL METER

- IEC651 Type II
- 32-80, 50-100, 80-130 dB level ranges
- Autoranging from 30 to 130 dB
- Dynamic range of 50 dB
- 0.1 dB resolution
- Frequency range: 31.5 Hz to 8 kHz
- Accuracy of ± 1.5 dB (ref 94 dB @ 1 kHz)
- 32,000 record data logger
- 4-digit backlit display
- Clock and bar graph displays
- Auto power off
- AC and DC output
- Max/Min function
- Includes calibration screwdriver, windscreen, RS232 cable, *Windows* datalogging software, battery, manual and carrying case

DATALOGGING

IA661

MODEL HN406

- Professional, 1 kHz/94 dB
- Diecasting aluminum alloy housing case
- Two 9 V batteries
- Size: 50 mm dia. x 82 mm

HN408

MODEL HN408

- Wind shield ball for sound level microphones
- Compatible with IA153, HN404, HN405, HX311 and IA154
- Size: 65 mm dia.
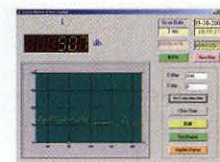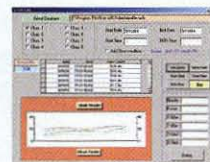
IA153

REED

Model No.	Mfg. No.	Description	Price/Each
IA153	C-322	Datalogging Sound Level Meter	495.00
HN408	SB-01	Wind Shield Ball	7.00
IA661	SC-05	Sound Calibrator	199.00

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1423

R29267E

LIGHT METER

- Designed for one-hand operation and to fit easily into a tool belt or pocket
- Autoranging
- Data Hold and Min/Max functions
- Auto shut-off and zero adjust button
- Overrange and low battery indications
- Ranges: 0 to 20,000 lux; 0 to 2,000 Fc
- User selectable Lux/Fc
- Includes battery

REED

Model No.	Mfg. No.	Description	Price/Each
HX288	LM-81LX	Light Meter	99.00

SOUND LEVEL METER

- Dual range measurement (Hi/Lo)
- A and C frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- AC/DC output signal for use with dataloggers
- Data Hold, Max Hold functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes carrying case and battery
- Measuring Range: Low: 35 to 100 dB; High: 65 to 135 dB (A and C)

REED

Model No.	Mfg. No.	Description	Price/Each
HX387	ST-805	Sound Level Meter	149.00

LIGHT METER

- Digital dual filter light meter designed to measure a wide range of lighting types
- Measures to 20,000 Lux
- Large LCD display provides clear readouts even in high ambient light levels
- Data hold function
- Zero adjustment screw
- Over range and low battery indication
- Battery included
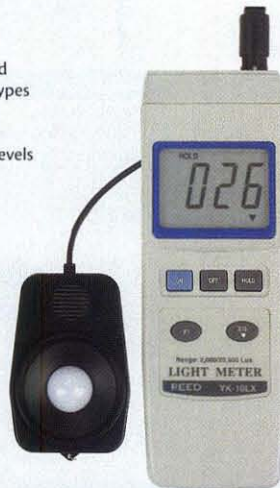
REED

Model No.	Mfg. No.	Description	Price/Each
HX319	YK-10LX	Light Meter	139.00

SOUND LEVEL METER

- Check sound levels quickly and economically
- Built-in 1/2" electric condenser microphone
- Measurements from 54 to 126 dB in 7 ranges
- Manual ranging
- Analog scale with needle indicator
- Selectable fast/slow response
- Selectable A/C weighting
- Easy calibration adjustment
- Max Hold button to lock peak values
- Low battery checker
- Analog output for connection to recorders, data loggers, etc.
- Threaded insert for tripod mount

REED

Model No.	Mfg. No.	Description	Price/Each
IA152	8926	Sound Level Meter	89.00

LIGHT METER

- Accurately measures light levels from 0 to 5000 Foot Candles (Fc) and 0 to 50,000 Lux in 3 ranges
- Displays with resolution of 0.1 Fc and 1 Lux, respectively
- Easy to operate - simply switch to desired range
- Large 0.5" LCD readout displays to 1999 counts and indicates overrange
- Precision selenium photovoltaic cells and microprocessor provide for excellent accuracy of ± 5 %
- Sampling time of 0.4 second
- DATA HOLD switch allows you to retain displayed value
- Automatic zero adjustment
- Separate light sensor facilitates measurements in remote locations
- Built-in analog output of 1 mV per count
- Ranges: 2000, 5000, 50,000 Lux; 200, 2000, 5000 Fc

REED

Model No.	Mfg. No.	Description	Price/Each
HF979	K7020	Light Meter	179.00

SOUND LEVEL DATALOGGER

- Conforms to IEC61672-1 Class 2 sound level meters
- 1/2" electret condenser microphone
- Plugs directly into your computer via integral USB port
- A and C frequency weighting
- Fast (125 ms) and Slow (1 s) time weighting
- Normal and Peak modes
- Max and Min measurements
- User selectable sampling intervals from 1 second to 24 hours
- Data storage capacity of 129,920 samples
- Measuring Range: 30 to 130 dB
- Dynamic Range: 50 dB
- Includes: Windscreen, transparent cap, software CD, metal support stand and battery

REED

Model No.	Mfg. No.	Description	Price/Each
IA595	ST-173	Sound Level Datalogger	139.00

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

R25324E

TALLY COUNTERS

MODEL HD317 HAND TALLY COUNTER

- Sturdy 4-figure hand-operated reset counter
- Push button actuator and handy thumb ring for easy operation
- Chrome plated steel case resists damage from perspiration
- Recommended for applications where operator must be mobile, such as checking meeting attendance, taking warehouse inventories, etc.

HD317

MODEL HD339 STAND TALLY COUNTER

- Sturdy 4-figure hand-operated reset counter
- Special mounting base designed for desk, bench or clipboard mounting
- Heavy gauge steel case and base are chromeplated to resist corrosion.
- Recommended for fixed applications such as assembly line parts counting, traffic surveys, etc.

HD339

REED

Model No.	Mfg. No.	Description	Price/Each
HD317	7655	Hand Tally Counter	16.00
HD339	8-005-1	Stand Tally Counter	19.00

RATCHET COUNTERS

STEEL COUNTER

- Operated by stroke (ratchet) drive
- Five figures standard, 4 mm high
- Knob reset
- Torque: 700 gcm
- Maximum count speed: 600 counts/minute
- Ratchet drive: spring return, 40° movement
- Black enamel steel case
- Supplied with connecting spring

HD448

PLASTIC COUNTER

- Reliable, low cost, plastic counters for all purposes
- Operated by stroke (ratchet) drive or by revolution drive
- Counts with one 45° adjustable lever movement (spindle on right side)
- 5-figure register with knob reset
- Supplied with connecting spring
- Five-figure reset counter counts machine revolution
- Adds when lever is revolved counter clockwise (spindle on right side)

TRUMETER

HA931

Model No.	Mfg. No.	Description	Price/Each
HD448	9-157-M5	Right Ratchet Counter, Steel	49.00
HD447	9-154-M5	Left Ratchet Counter, Steel	49.00
HA931	2012-5	Right Ratchet Counter, Plastic	19.00

DISTANCE MEASURING WHEEL

- Ideal for road distance measuring applications
- Fitted with a 1 m circumference wheel
- Two measuring modes: Trip and Total
- Accuracy: ± 1%
- Adds forward, subtracts in reverse
- Metric and imperial measurement
- Measure in meters, yards or feet and inches at the push of a button
- Large LCD display is crystal clear in direct sunlight
- Backlight for low light conditions
- Waterproof for all weather conditions
- Pushbutton reset
- Electronic brake
- Telescopic handle
- Mud scraper
- Minimum 5-year battery life

TRUMETER

Model No.	Mfg. No.	Description	Price/Each
HC438	5505E	Distance Measuring Wheel	86.00

STOP WATCHES

MODEL HM942

- High contrast digital display
- Records real time and split times
- 1/100th second resolution
- Displays hour, minute, second, and day of the week
- Alarm and snooze functions
- Shock and water resistant case

HM942

MODEL IA078

- High contrast digital display with backlight
- Clock, date and alarm functions
- Records real time and split times
- Remembers first 30 laps and their split times (max. 99 laps displayed)
- 1/100th second resolution up to 100 hours
- Shock and water resistant case

IA078

MODEL IA006

- Large LCD that displays real time and records split times for accurate result
- Clock, date and alarm function
- Water resistant
- Includes: Batteries and a 48" nylon lanyard which allows you to comfortably hang the stopwatch around your neck

IA006

BIOS Diagnostics

Model No.	Mfg. No.	Description	Price/Each
HM942	FP601	Digital Stop Watch, w/neck lanyard and battery	16.00
IA078	FP603	Digital Stop Watch, w/neck lanyard and battery	32.00
IA006	FP600	Digital Stop Watch, w/neck lanyard and battery	27.11

DUAL DIGITAL TIMER

- Hours, minutes and seconds
- Counts up or down
- Digital clock (12/24 hour selectable)
- 2 channels for timer setting
- Magnetic back, built-in clip, retractable stand

Thermor

Model No.	Mfg. No.	Description	Price/Each
HX501	DT123	Digital Timer	22.44

DIGITAL TIMER

- LCD readout
- Counts hours and minutes
- Pocket clip, desk stand and magnet

Thermor

Model No.	Mfg. No.	Description	Price/Each
HX499	DT120	Digital Timer	10.50

JUMBO DIGITAL TIMER

- Jumbo LCD display
- Minutes and seconds
- Count down timer
- 30-second beeper alarm
- Memory recalls previous time setting
- Magnetic back, built-in clip, retractable stand

Thermor

Model No.	Mfg. No.	Description	Price/Each
HX500	DT122	Digital Timer	14.70

OFFICE PRODUCTS | INSTRUMENTS, SCALES & ELECTRICAL | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1425

INSTRUMENTS

STROBOSCOPE

- Internal rechargeable batteries mean easy handling and true portability
- 10-turn potentiometer provides infinite adjustment and precise selection of flash rate
- Temperature stable internal reference ensures low drift operation
- Backlit display for easy reading in all ambient light conditions
- Input and output jacks enable the stroboscope to be remotely triggered and synchronized to external events or operated in a Master/Slave configuration
- Both input and output signals are TTL compatible
- A latching trigger and 1/4-20 UNC tripod mount allows for hands-free operation
- Measuring Range: 100 to 12,000 fpm

MONARCH

Model No.	Mfg. No.	Description	Price/Each
HK251	6204-011	Digital Stroboscope w/Internal Batteries	863.00

TACHOMETER

- Dual function unit with both contact and non-contact capabilities
- Supplied with adapters for fpm, rpm and surface speed measurements
- Non-contact function utilizes laser light beam for improved accuracy
- Recalls Max/Min and last values
- Large, easy-to-read display
- Autoranging with 0.05 % accuracy
- Includes battery and carrying case
- Measuring Range: Photo: 5 to 99,999 rpm; Contact: 5 to 19,999 rpm; Surface Speed: 0.05 to 1999 mpm

REED

Model No.	Mfg. No.	Description	Price/Each
HX386	ST-6236B	Photo/Contact Tachometer	179.00
IA046	ST-CONE	Replacement Contact Adapter	3.00
IA047	ST-WHEEL	Replacement Surface Speed Wheel	13.00

ULTRASONIC DISTANCE MEASURER

- Ultrasonic distance measurer with laser point targeting
- Measures in imperial/metric
- Laser target pointer
- Start point selection
- Measurements taken from front or rear of unit
- Data store/recall
- Computes areas and volumes
- 5 groups of value in memory
- Sum of lengths
- Auto/manual shut-off
- LCD backlight
- Beeps for reading confirmation
- Measuring Range: 0.5 m to 16 m (20 in to 52 ft)

REED

Model No.	Mfg. No.	Description	Price/Each
IA390	DM-01	Ultrasonic Distance Measurer	49.00

TACHOMETER

- Patented design incorporates both a photo and a contact tachometer into one precision instrument
- Ranges: from 0.5 to 20,000 rpm in contact mode; from 5 to 99,999 rpm in photo mode; surface speed from 0.05 to 1999.9 mpm (0.2 to 6560 fpm)
- Linear surface speed measurements are 0.2 to 6560 fpm or 0.05 to 1999.9 mpm
- Automatically holds last reading for 5 minutes and recalls min. and max. readings
- Characters on the large 5 digit display reverse direction depending on which measurement mode you are in
- Provides accuracy to 0.05 % and permits readings to a resolution of 0.1 rpm in either photo or contact mode

REED

Model No.	Mfg. No.	Description	Price/Each
HF964	K4010	Photo/Contact Tachometer	279.00
IA046	ST-CONE	Replacement Contact Adapter	3.00

DIGITAL FORCE GAUGE

- Provides readings of tension (push) or compression (pull) in kg, lb. oz. and Newton units
- Instantly recalls "Peak Load" (max. load) and average readings
- Microprocessor assures ± 0.2 % accuracy and fast 0.8 second update time
- 100 % Zero/Tare control enables maximum pre-load to be stored in the memory
- Zero Adjust push-button and Peak Hold switch
- Selectable fast/slow response
- Large 5-digit LCD display is reversible to match viewing angle
- Holes on the back of the meter case facilitate test stand mounting
- Battery or AC-line operated (uses 6 x 1.5 V "AA" batteries)
- Auto Power Off minimises power consumption and saves battery life
- Complete with hook adapter for tension, compression adapters (flat head, cone head, and chisel head), 5" (120 mm) extension rod, 6 AA batteries and carrying case
- Model **HF676** capacity: 5000 g, 176 oz., 49 N
- Model **HF278** capacity: 20 kg, 44 lbs., 196 N
- Model **HX277** capacity: 100 kg, 220 lbs., 980 N

HX278 **HX277** **HX279**

Case and accessories included

REED

Model No.	Mfg. No.	Description	Price/Each
HF676	FG-5000A	5000-g Capacity	445.00
HX278	FG-20KG	20-kg Capacity	495.00
HX277	FG-5100	100-kg Capacity	595.00
HX279	FS-1001	Test Stand	895.00

R29269E

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

THERMO-ANEMOMETER

- Mini-vane anemometer permits access to restricted areas
- Dual display indicates m/s, ft/min, km/h, knots, mph and °C/°F
- 13 mm diameter metal mini-vane and telescopic probe to 600 mm
- RS232 output
- Data hold, Record (Max/Min)
- Auto shut off
- Includes battery and hard carrying case
- Velocity Range: 0.2 to 12.0 m/s; 2.8 to 43.2 km/h; 1.8 to 26.8 mph; 160 to 2358 ft/m; 0.8 to 23.3 knots
- Temperature range: 32° to 176°F; 0° to 80°C

REED

Model No.	Mfg. No.	Description	Price/Each
HX340	YK-80 AS	Thermo-Anemometer	495.00

THERMO-ANEMOMETER

- Rotating vane anemometer provides direct reading of air velocity and temperature
- Dual display indicates m/s, ft/min, km/h, knots, mph and °C/°F
- RS232 output
- Data hold, Record (Max/Min)
- Auto shut off
- Includes a heavy-duty metal vane probe
- Velocity range: 0.8 to 40.0 m/s; 2.8 to 144.0 km/h; 1.8 to 89.4 mph; 160 to 4930 ft/m; 1.6 to 78.1 knots
- Temperature Range: 32° to 140°F; 0° to 60°C

REED

Model No.	Mfg. No.	Description	Price/Each
HX338	YK-80 AM	Thermometer-Anemometer	395.00

THERMO-ANEMOMETER

- Built-in rotary vane sensor for one hand operation
- Simultaneous display or air velocity and temperature
- Data hold and auto power off
- Continuous moving air velocity averaging of measurements for up to 2 hours
- Displays Min/Max/Avg velocity with temperature values
- Multi-point averaging up to 8 points
- Calculate average velocity values in seconds
- High-contrast, 4-digit LCD readout
- RS-232 interface
- Air Velocity Range: 80 to 5900 fpm; 0.4 to 30 m/s
- Temperature Range: -10° to 50°C; 14° to 122°F

REED

Model No.	Mfg. No.	Description	Price/Each
IA041	8903	Thermo-Anemometer	89.00

THERMO-ANEMOMETER

- All-in-one meter with integral rotary vane sensor
- Simultaneous display or air velocity and temperature
- Selectable wind speed units: Knots, mph, km/h
- Calculate air volume by keying in area dimension
- Continuous moving air velocity averaging of measurements for up to 2 hours
- Displays Min/Max/Avg velocity with temperature values
- Multi-point averaging up to 8 points
- Calculate average velocity values in seconds
- High-contrast, 4-digit LCD readout
- RS-232 interface
- Data hold and auto power off
- Air Velocity Range: 80 to 5900 fpm; 0.4 to 30 m/s; 0.9 to 68 mph; 1.4 to 108 km/h; 0.8 to 58 knots
- Temperature Range: -10° to 50°C; 14° to 122°F

REED

Model No.	Mfg. No.	Description	Price/Each
IA040	8906	Thermo-Anemometer	259.00

THERMO-ANEMOMETER

- Data hold, Record (Max/Min)
- Integral vane design for one hand operation
- Push button operation
- Pocket-sized
- Includes battery
- Air Velocity Range: 80 to 5910 fpm; 0.4 to 30 m/s; 0.9 to 67 mph; 1.4 to 108 km/h; 0.8 to 58.3 knots
- Temperature Range: 0° to 50°C; 32° to 122°F

REED

Model No.	Mfg. No.	Description	Price/Each
HX286	LM-81 AM	Thermo-Anemometer	99.00

THERMO-ANEMOMETER

- 4-in-1 multi-function meter: anemometer, humidity meter, light meter and type-K digital thermometer
- Data hold, Record (Max/Min)
- Integral vane design for one hand operation
- Push button operation
- Pocket-sized
- Includes battery
- Air Velocity Range: 80° to 5910 fpm; 0.4 to 30 m/s; 0.9 to 67 mph; 1.4 to 108 km/h; 0.8 to 58.3 knots
- Temperature Range: Air: 0° to 50°C; 32° to 122°F; Input: -100° to 1300°C; -148° to 2372°F
- Humidity Range: 10 to 95 % RH
- Light Range: 0 to 20,000 lux; 0 to 2,000 Ft-c

REED

Model No.	Mfg. No.	Description	Price/Each
HX285	LM-8000	Multi-Function Meter	195.00

R29270E

OFFICE PRODUCTS | **INSTRUMENTS, SCALES & ELECTRICAL** | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1427

THERMO-ANEMOMETER

MEASURES AIR VELOCITY, AIR VOLUME & AIRSTREAM TEMPERATURE

- Newly developed reversible head for measuring air velocity at exhaust and inlet grilles with one instrument
- Sweep mode measures average air velocity or air volume over an area or period of time
- Displays measurements in metric or imperial units
- Ergonomically designed for high performance, unrivalled accuracy and ease of use
- Air Velocity Range: 0.25 to 30 m/s (50 to 6,000 fpm)
- Temperature Range: 0 to 60°C (32 to 140°F)
- Volumetric Flow Rate: 1 to 999,999 l/s (1 to 9,999,000 cfm) 1 to 999,999 m³/h, 0.1 to 3,000 m³/s
- Optional AirCones quickly convert the **HK666** into an air volume flow balancing tool
- Aerodynamic design for minimal resistance
- Two sizes suit most supply and extract grilles
- Self sealing for leak tight readings
- Constructed of hard wearing ABS
- Volume flow curves in m³/sec and cfm
- Air Volume Range: 0 to 0.1 m³/s (0 to 210 cfm)

HK666

IA116

ALNOR
A TSI® Company

Model No.	Mfg. No.	Description	Price/Each
HK666	RVA801	Rotating Vane Thermo-Anemometer	674.00
IA116	801750	Volumetric Flow Hoods	286.00

ROTATING VANE THERMO-ANEMOMETER

- Designed to provide fast and accurate air velocity and temperature readings
- Separate rotating vane anemometer sensor
- Type K sensor for temperature measurements
- 3 1/2 digits LCD readout
- Data hold and Max hold functions

SPECIFICATIONS:

Air Velocity Range:	0.0 to 45.0 m/s; 0.0 to 140.0 kph; 0.0 to 88.0 knots
A/V Resolution:	0.1 m/s; 0.1 kph; 0.1 knot
A/V Accuracy:	±3%
Temperature Range:	0° to 60.0°C; 32.0° to 140.0°F
Temp. Resolution:	0.1°C; 0.1°F
Temp. Accuracy:	±0.8°C; ±1.5°F
Dimensions:	Meter: 150 x 72 x 35 mm; Vane: 132 x 66 x 29 mm
Weight:	Meter: 210 g; Vane: 35 g

REED

Model No.	Mfg. No.	Description	Price/Each
IA196	ST-618	Rotating Vane Thermo-Anemometer	179.00

BALOMETER

- Detachable manometer can be used with optional probes
- Reads in. H_2O, ft H_2O, PSI, in. Hg, mm Hg, m H_2O, kPa, mm Hg, bar
- Displays Min, Max and Average of up to 1000 readings
- Stores up to 1000 readings with time and date stamp
- Battery operated
- Includes *CompuDat* software to download data to PC
- Shipped complete with manometer, 2' x 2' air capture hood/frame/base, 4 "AA" size rechargeable NiMH batteries, external battery charger, 18" pitot probe, 2 static pressure probes, 16 ft. neoprene tubing, wheeled carrying case, software and manual
- Diff. Pressure Range: ±15 in. H_2O (3735 Pa)
- Absolute Pressure Range: 15 to 40 in Hg (356 to 1016 Hg)
- Air Velocity Range: 25 to 8,000 fpm (0.125 to 40 m/s) pitot tube; 25 to 5,000 fpm (0.125 to 25 m/s) air flow probe; 25 to 2,500 fpm (0.125 to 12.5 m/s) velocity matrix
- Air Volume Range: 25 to 2,500 ft³/m (42 to 4250 m³/h)
- Humidity Range: 0 to 95% RH (optional probe)
- Temperature Range: -40° to 250°F (-40° to 121°C) probe dependent

IA120

ALNOR
A TSI® Company

Model No.	Mfg. No.	Description	Price/Each
IA120	EBT721	Balometer, Electronic Kit	3695.00
IA575	800187	Air Foil Probe	395.00
IA576	800188	Probe, Temperature	191.00
IA577	800189	Probe, Temp/RH	409.00
IA578	801090	16-Point Velocity Matric w/Telescopic Handle	483.00
IA579	801206	Hood Expansion Kit, 2 hoods, 1' x 4' and 2' x 4'	613.00
IA580	801207	Hood Expansion Kit, 2 hoods, 1' x 5' and 3' x 3'	613.00

THERMO-ANEMOMETERS

- Simultaneous display of air velocity and temperature (and humidity with Model **HX258**)
- Super large (1.4"), 4-digit, dual function LCD
- Remote low friction vane-type air flow sensor (2.33"D)
- Humidity probe with thin-film capacitance sensor
- Both sensors also provide temperature measurements
- Record/Recall Min, Max and Avg readings
- Data Hold plus Auto shut off
- Built-in RS-232 serial interface with optional data acquisition software and datalogger module
- 9 V battery power or optional AC adapter
- Complete with airflow and humidity probes with 39" (1m) cable, 9 V battery and protective holster
- Air Velocity Range: 0.4 to 25.0 m/s; 1.4 to 90.0 km/h; 80 to 4930 ft/min; 0.9 to 55.9 mph; 1.9 to 38.8 knots
- Temperature Range: 32 to 122°F; 0 to 50°C
- Humidity Range: 0 to 95% RH

REED

Model No.	Mfg. No.	Description	Price/Each
HX258	AM-4205	Thermo-Anemometer/Hygrometer	395.00

MATERIAL HANDLING & STORAGE | JANITORIAL & MAINTENANCE | SAFETY EQUIPMENT & SUPPLIES | WELDING & METALWORKING | TOOLS & EQUIPMENT | SHIPPING & PACKAGING | **INSTRUMENTS, SCALES & ELECTRICAL** | OFFICE PRODUCTS

R29271E

MANOMETER

- 8 selectable measuring units: PSI, mBar, kg/cm², mm/Hg, in/Hg, meter/ w.c., in/w.c. and Atmosphere
- Basic accuracy of ± 1% of full scale
- Dual differential inputs with internal sensors
- Large LCD display with contrast adjustment
- Zero function for offset measurements
- Data Hold and Min/Max recall
- Auto power off
- Quick-disconnect fittings
- RS232 serial interface
- Sampling Time: 0.8 second
- Pressure Ranges: ± 2000 mbar, ± 29 PSI, ± 2.040 kg/cm², ± 1500 mm Hg, ± 59.05 in Hg, ± 20.40 m H₂O, ± 802.0 in H₂O, ± 1.974 Atmosphere

REED

Model No.	Mfg. No.	Description	Price/Each
HX301	PM-9100	Digital Manometer	259.00

MANOMETERS

- Digital display of gauge or differential
- Select from one of 11 different pressure units
- Data hold
- Max/Min Record
- Display backlight
- Auto power off
- Low battery indicator
- Simple fittings for hose connection
- Optional RS-232 interface
- Includes hard carrying case, 9 V battery, connection hose and manual
- Pressure Range: **IA138:** 0 to 30 PSI; **IA139:** 0 to 100 PSI

REED

IA138

Model No.	Mfg. No.	Description	Price/Each
IA138	8230	Digital Manometer	175.00
IA139	82100	Digital Manometer	195.00

MANOMETERS

- Measures positive, negative or differential pressures of air and other gases
- New FM approved option is intrinsically safe for hazardous locations, Class I, Div.1, Group A, B, C, D, T4
- When used with a pitot tube, can also be used as an air velocity gauge
- Dual push pads on the front panel control on-off operation and English or metric pressure unit selection - all with no set-up or levelling
- Zero adjust knob is conveniently located on top
- Large 1/2" LCD display is easy to read in even the poorest lighting conditions, includes a "low battery" indicator
- Standard connections are dual sized for 1/8" or 3/16" I.D. vinyl or rubber tubing

Dwyer

IA127

Model No.	Mfg. No.	Range	Price/Each
IA124	475-000-FM	0-1.00 in. w.c/0-.249 kPa	431.00
IA125	475-00-FM	0-4.00 in. w.c/0-.995 kPa	413.00
IA126	475-0-FM	0-10.00 in. w.c/0-2.49 kPa	413.00
IA127	475-1-FM	0-19.99 in. w.c/0-4.97 kPa	195.00
IA128	475-2-FM	0-40.00 in. w.c/0-9.95 kPa	254.00
IA129	475-3-FM	0-199.9 in. w.c/0-49.7 kPa	254.00
IA130	475-4-FM	0-10.00 psid/0-.689 bar	254.00
IA131	475-5-FM	0-19.99 psid/0-1.378 bar	254.00
IA132	475-6-FM	0-30.0 psid/0-2.07 bar	254.00
IA137	475-7-FM	0-100 psid/0-6.89 bar	537.00
IA138	475-8-FM	0-150 psid/0-10.34 bar	175.00

MANOMETER

- Positive or negative pressure measurements
- Auto power off to conserve battery life
- Electronic zeroing function for offset measurements
- Large, easy-to-read display
- Extruded aluminum case
- Pressure Range: -20 to 20 w.c. (-50 to 50 mbar)

Dwyer

Model No.	Mfg. No.	Description	Price/Each
IA135	476A-0	Digital Manometer	141.00

MANOMETERS

- Instant selection from up to nine English/metric units: psid, in H₂O, mm H₂O, in Hg, mm Hg, Pa, kPa, bar, Mbar
- Stores 20 readings in memory for later reference
- Measure positive, negative or differential pressures
- Audible and visual overpressure alarms
- Large, easy-to-read 0.4" LCD readout includes switchable backlight
- Electronic zeroing lets you null out any minor differences
- Display hold key freezes current pressure reading reading
- Operates up to 100 hours on a single 9 Volt battery
- Auto shut-off to minimise battery drain
- FM approved as intrinsically safe for hazardous locations Class 1, Div. 1, Group A, B, C, D, T4.

Dwyer
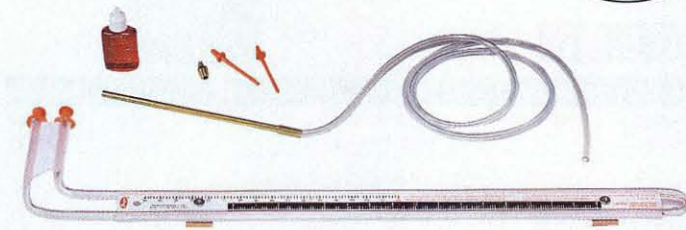
HM543

| Model No.	Mfg. No.	Range	Price/Each
HM543	477-1-FM	0-20 in. w.c/0-5 kPa	594.00
HM544	477-2-FM	0-40 in. w.c/0-10 kPa	537.00
HM545	477-3-FM	0-200 in. w.c/0-50 kPa	537.00
HM546	477-4-FM	0-10 psid/0-70 kPa	537.00
HM547	477-5-FM	0-30 psid/0-200 kPa	537.00
IA136	477-6-FM	0-100 psid/0-700 kPa	537.00
IA137	477-7-FM	0-150 psid/0-1000 kPa	537.00

R29272E

DUAL RANGE INCLINED U-TUBE MANOMETER

- As a regular U-tube manometer it indicates high range pressure from 0 to 16 inches of water (with .2" minor divisions) on the right leg; as an inclined manometer it reads low range pressure from -.20 to 0 to 2.6 inches of water (with .02" minor divisions) on the left leg
- Easy to use; simply incline unit until fluid level reads zero
- Magnetic clips hold the gauge in position on steel duct surface
- **Unit comes complete with:** Two magnetic clips to hold the instrument to metal surfaces; two plastic carrying plugs with retainers for use when the manometer is not in service; flexible vinyl plastic tubing connectors; 4 1/2' length of plastic tubing; brass terminal tube, 1/4" dia. x 8" long; 1/8" NPT brass adapter; 3/4 oz. bottle red gauge fluid; and vinyl carrying case.

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HA382	1227	Inclined U-Tube Manometer	95.00

SLACK TUBE MANOMETER

- All models have flexible vinyl-plastic columns and flexible spring steel scale calibrated in inches of water using water, and inches of mercury using mercury
- Scale is centre-mounted between columns to eliminate parallax error and has a full 2-inch sliding zero adjustment
- All models feature exclusive moulded nylon tubing connector assemblies with rapid shutoff design and an acrylic plastic top
- Moulded all-nylon construction makes this assembly corrosion-proof, leakproof and practically unbreakable
- Tubing connectors extend horizontally allowing 360° freedom
- All models have over pressure safety traps in the top of both columns to prevent loss of fluid due to over range pressures or surges in pressure

HA314

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HA314	1211-8	Slack Tube Manometer, 4-0-4 in	95.00
HA303	1211-12	Slack Tube Manometer, 6-0-6 in	99.00
HA305	1211-16	Slack Tube Manometer, 8-0-8 in	100.00
HA307	1211-24	Slack Tube Manometer, 12-0-12 in	105.00
HA308	1211-30	Slack Tube Manometer, 15-0-15 in	117.00
HA309	1211-36	Slack Tube Manometer, 18-0-18 in	111.00
HA310	1211-48	Slack Tube Manometer, 24-0-24 in	139.00
HA312	1211-60	Slack Tube Manometer, 30-0-30 in	147.00
HA313	1211-72	Slack Tube Manometer, 36-0-36 in	147.00
HA304	1211-120	Slack Tube Manometer, 60-0-60 in	157.00
HA311	1211-50	Slack Tube Manometer, 25-0-25 cm	118.00
HA302	1211-100	Slack Tube Manometer, 50-0-50 cm	121.00
HA306	1211-200	Slack Tube Manometer, 100-0-100 cm	151.00

INCLINED/VERTICAL MANOMETER

- Inclined section for high accuracy and vertical section for extended range
- Velocity marked in red; air pressure marked in black
- Screw leveling adjustment and ground glass bubble level
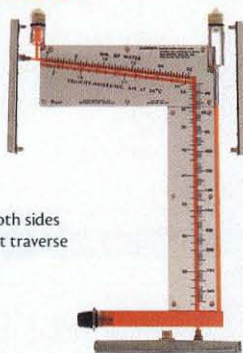
KIT INCLUDES NO. 400 AIR METER & ALL ACCESSORIES:

- Stainless steel calibrated pitot tube (18") - Graduated both sides in inches to show insertion depth for easy, accurate duct traverse
- Rubber tubing with connectors - 2 coils of 3/8" with metal terminal tubes
- Magneclip side mountings - Attaches meter instantly to steel duct or surface
- Air velocity calculator - Slide rule eliminates tedious calculations
- Red gauge oil - Spare bottle for occasional refilling
- Instruction card
- Steel carrying case

Dwyer.

Model No.	Mfg. No.	Pressure	Velocity	Inclined Range	Vertical Range	Price/Each
HB911	400-5L	0-5" H$_2$O	400-9000 fpm	0-1" w.c.	1-5" w.c.	1149.00
HB909	400-10	0-10" H$_2$O	400-12,600 fpm	0-1" w.c.	1-10" w.c.	1185.00
HB910	400-23	0-23" H$_2$O	600-19,200 fpm	0-2.3" w.c.	2.3-23" w.c.	1515.00

AIR FILTER GAUGE

- Compact inclined-vertical air filter gauge measures pressures both above and below atmospheric, as well as pressure differentials
- Logarithmic curve-shaped tube provides high range capacity with large, more easily read increments at low readings
- Operating range is 0 to 3 inches water, with divisions of 0.01 inch water at the low end scale, and 0.120 inch water at the high end
- Accurate to ± 3 % of full scale
- Constructed of moulded acrylic plastic

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HB239	25	Air Filter Gauge	51.00

PITOT TUBES

- Hemispherical tip design means low sensitivity to misalignment
- Precisely located, burr-free static pressure holes
- 304 stainless steel construction
- 5/16" models rated to 1500 °F, 1/8" models to 800 °F
- Use 1/8" models in ducts as small as 4", 5/16" models in ducts 10" or larger
- Silver soldered connections for leak-proof operation
- Inch graduations on sides quickly determine exact insertion depth

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HA532	160-8	Standard 5/16" Pitot Tube, 8" Insertion Length	91.00
HA522	160-12	Standard 5/16" Pitot Tube, 12" Insertion Length	79.00
HA525	160-18	Standard 5/16" Pitot Tube, 18" Insertion Length	91.00
HA527	160-24	Standard 5/16" Pitot Tube, 24" Insertion Length	95.00
HA528	160-36	Standard 5/16" Pitot Tube, 36" Insertion Length	108.00
HA529	160-48	Standard 5/16" Pitot Tube, 48" Insertion Length	111.00
HA530	160-60	Standard 5/16" Pitot Tube, 60" Insertion Length	130.00
HA585	166-6	Pocket 1/8" Diameter Pitot Tube, 6" Insertion Length	85.00
HA584	166-12	Pocket 1/8" Diameter Pitot Tube, 12" Insertion Length	88.00
HA587	167-6	Pocket 1/8" Diameter Short Tip Pitot Tube, 6" Insertion Length	85.00
HA586	167-12	Pocket 1/8" Diameter Short Tip Pitot Tube, 12" Insertion Length	88.00

R25330E

VIBRATION METER

- Measures acceleration, velocity, and displacement
- Bearing condition monitoring function
- Piezoelectric accelerometer
- 4-digit, 18 mm high LCD readout with data hold
- Includes: accelerometer, two stinger probes (cone and ball), rare earth magnet, and carrying case

SPECIFICATIONS:

Ranges:

Velocity:	0.01 to 20.00 cm/s (RMS)
Acceleration:	0.1 to 200.0 m/s^2 (peak);
Displacement:	0.001 to 2.000 mm (peak-peak)

Frequency Ranges:

Acceleration:	10 to 1 kHz ("1" mode),
	10 to 10 kHz ("10" mode);
Velocity:	10 Hz to 1 kHz;
Displacement:	10 Hz to 1 kHz
Accuracy:	±5% rdg. + 2 dgt.
Power Supply:	4 x 1.5 V "AA" batteries
Dimensions:	160 x 68 x 32 mm

REED

Model No.	Mfg. No.	Description	Price/Each
IA633	VM-6320	Vibration Meter	695.00

VIBRATION METER

- Provides direct readings of acceleration and velocity
- RMS and Peak measurement
- Data hold, max. and min. memory
- 4-digit LCD readout and slide switch operation
- RS-232 output
- Includes remote vibration sensor, magnetic base, and hard carrying case
- Velocity Ranges: 20 and 200 mm/s
- Acceleration Ranges: 200 and 2000 m/s^2
- Frequency Range: 10Hz to 1kHz
- Dimensions/Weight: 7.1 x 2.8 x 1.3"/14.6 oz

HX317

REED

Model No.	Mfg. No.	Description	Price/Each
HX317	VB-8200	Vibration Meter	895.00
HX312	SW-U801-WIN	Data Acquisition Software	89.00
HX315	UPCB-01	RS232 Cable	30.00
IA631	USB-01	USB Cable	68.00

MAGNEHELIC® GAUGE

- Accuracy: ±2% f.s. @ 70°F
- Pressure Rating: -20" Hg to 15 PSIG
- Overpressure: Relief plug open at 25 PSIG
- Ambient Temperature: 20° - 140°F
- Connections: 1/8" NPT female high and low pressure taps

HA878

Model No.	Mfg. No.	Range	Minor Divs.	Price/Each
HA878	2001D	0 to 1.0 in. w.c.	.02	94.00
HA889	2002D	0 to 2.0 in. w.c.	.05	94.00
HM190	2003D	0 to 3.0 in. w.c.	.10	94.00
HA896	2004D	0 to 4.0 in. w.c.	.10	94.00
HA898	2005D	0 to 5.0 in. w.c.	.10	94.00
HA900	2006D	0 to 6.0 in. w.c.	.20	109.00
HA908	2008D	0 to 8.0 in. w.c.	.20	102.00
HA924	2010D	0 to 10 in. w.c.	.20	94.00
HA944	2015D	0 to 15 in. w.c.	.50	94.00
HA948	2020D	0 to 20 in. w.c.	.50	94.00
HA950	2025D	0 to 25 in. w.c.	.50	94.00
HA952	2030D	0 to 30 in. w.c.	1.0	102.00
HA953	2040	0 to 40 in. w.c.	1.0	109.00
HA957	2050D	0 to 50 in. w.c.	1.0	102.00
HA959	2060	0 to 60 in. w.c.	2.0	102.00
HA968	2080	0 to 80 in. w.c.	2.0	109.00
HA980	2100	0 to 100 in. w.c.	2.0	102.00
HB094	2150	0 to 150 in. w.c.	5.0	116.00
HB161	2201	0 to 1 PSI	.02	116.00
HB164	2202	0 to 2 PSI	.05	116.00
HB165	2203	0 to 3 PSI	.10	116.00
HB166	2204	0 to 4 PSI	.10	116.00
HB167	2205	0 to 5 PSI	.10	116.00
HB169*	2210	0 to 10 PSI	.20	201.00
HB171*	2215	0 to 15 PSI	.50	201.00
HB174*	2220	0 to 20 PSI	.50	201.00
HB175**	2230	0 to 30 PSI	1.0	263.00

Model No.	Mfg. No.	Zero Center Range	Minor Divs.	Price/Each
HB189†	2300-0	.25 to 0 to .25 in. w.c.	.01	110.00
HB200	2301	.5 to 0 to .5 in. w.c.	.02	118.00
HB202	2302	1 to 0 to 1 in. w.c.	.05	127.00
HB204	2304	2 to 0 to 2 in. w.c.	.10	127.00
HB206	2310	5 to 0 to 5 in. w.c.	.20	127.00
HB207	2320	10 to 0 to 10 in. w.c.	.50	127.00
HB211	2330	15 to 0 to 15 in. w.c.	1.0	127.00

Model No.	Mfg. No.	Pressure Range	Air Velocity Range	Price/Each
HA827†	2000-00 AV	0 to .25 in. w.c.	300 to 2000 fpm	134.00
HA824†	2000-0 AV	0 to .50 in. w.c.	500 to 2800 fpm	116.00
HA877	2001 AV	0 to 1.0 in. w.c.	500 to 4000 fpm	116.00
HA880	2002 AV	0 to 2.0 in. w.c.	1000 to 5600 fpm	109.00
HA919	2010 AV	0 to 10 in. w.c.	2000 to 12,500 fpm	116.00

* MP option standard   ** HP option standard   † These ranges calibrated vertical scale position

R29273E

OFFICE PRODUCTS | **INSTRUMENTS, SCALES & ELECTRICAL** | SHIPPING & PACKAGING | TOOLS & EQUIPMENT | WELDING & METALWORKING | SAFETY EQUIPMENT & SUPPLIES | JANITORIAL & MAINTENANCE | MATERIAL HANDLING & STORAGE

1431

PROCESS GAUGES

- Stamped aluminum 4 1/2" (115 mm) diameter dial
- Black, impact resistant phenolic case
- 316 stainless steel bourdon tube and socket
- Silicone fluid filled and rated for -50° to 170°F
- 1/2 % of full scale accuracy
- Transient over-pressure limit: 30%
- Restrictor screw
- Shatterproof glass lens
- Integral back flange
- Safety blowout backplate
- Micrometer adjustable pointer
- 1/4" or 1/2" NPT male connection bottom

IA361
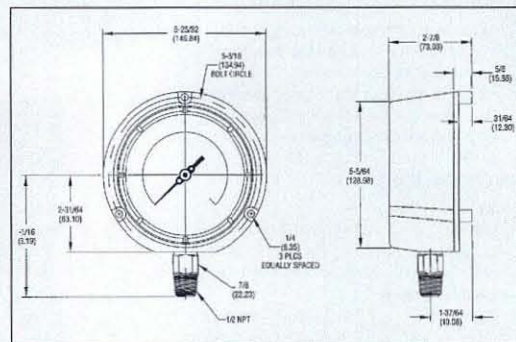
REED

1/4" NPT Model No.	Mfg. No.	1/2" NPT Model No.	Mfg. No.	Dial Ranges	Price /Each
IA399	LF45-15-1/4	IA351	LF45-15-1/2	30"-0-15 PSI	98.00
IA335	LF45-30-1/4	IA352	LF45-30-1/2	30"-0-30 PSI	98.00
IA336	LF45-60-1/4	IA353	LF45-60-1/2	30"-0-60 PSI	98.00
IA337	LF45-30HG-1/4	IA354	LF45-30HG-1/2	30"- 0 Hg Vac.	98.00

1/4" NPT Model No.	Mfg. No.	1/2" NPT Model No.	Mfg. No.	Compound Scale Dial Ranges	Price /Each
IA338	LF45-15P-1/4	IA355	LF45-15P-1/2	0-15 PSI/0-100 kPa	98.00
IA339	LF45-30P-1/4	IA356	LF45-30P-1/2	0-30 PSI/ 0-200 kPa	98.00
IA340	LF45-60P-1/4	IA357	LF45-60P-1/2	0-60 PSI/0-400 kPa	98.00
IA341	LF45-100P-1/4	IA358	LF45-100P-1/2	0-100 PSI/0-700 kPa	98.00
IA342	LF45-160P-1/4	IA359	LF45-160P-1/2	0-160 PSI/0-1100 kPa	98.00
IA343	LF45-200P-1/4	IA360	LF45-200P-1/2	0-200 PSI/0-1400 kPa	98.00
IA344	LF45-300P-1/4	IA361	LF45-300P-1/2	0-300 PSI/0-2100 kPa	98.00
IA401	LF45-400P-1/4	IA362	LF45-400P-1/2	0-400 PSI/0-2800 kPa	98.00
IA345	LF45-600P-1/4	IA363	LF45-600P-1/2	0-600 PSI/0-4200 kPa	98.00
IA400	LF45-1500P-1/4	IA365	LF45-1500P-1/2	0-1500 PSI/0-10,500 kPa	98.00
IA347	LF45-2000P-1/4	IA366	LF45-2000P-1/2	0-2000 PSI/0-14,000 kPa	98.00
IA348	LF45-3000P-1/4	IA367	LF45-3000P-1/2	0-3000 PSI/0-21,000 kPa	98.00
IA349	LF45-5000P-1/4	IA368	LF45-5000P-1/2	0-5000 PSI/0-35,000 kPa	98.00
IA350	LF45-10000P-1/4	IA369	LF45-10000P-1/2	0-10,000 PSI/0-70,000 kPa	98.00

PRESSURE GAUGES

- 4.5" diameter dial has dual English/metric scales
- Balanced adjustable black pointer
- Corrosion resistant stainless steel case and ring, plastic lens
- Soft soldered phosphor bronze tube with brass socket recommended for average general use
- Suitable for steam, water, air, oil, gas or any medium not corrosive to copper alloys
- 1/4" NPT bottom connection only
- 1 % accuracy
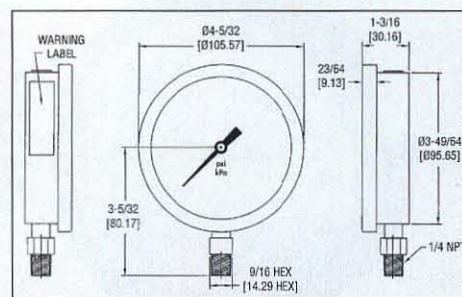
IA328

REED

Model No.	Mfg. No.	Dial Range	Figure Intervals	Smallest Graduation	Price /Each
IA326	421 AVND-30	0-30 PSI/0-200 kPa	5 PSI.	0.5 PSI	19.00
IA327	421 AVND-60	0-60 PSI/0-400 kPa	10 PSI.	1 PSI	19.00
IA328	421 AVND-100	0-100 PSI/0-700 kPa	10 PSI.	1 PSI	19.00
IA329	421 AVND-160	0-160 PSI/0-1100 kPa	20 PSI.	2 PSI	19.00
IA330	421 AVND-200	0-200 PSI/0-1400 kPa	20 PSI.	2 PSI	19.00
IA331	421 AVND-300	0-300 PSI/0-2100 kPa	50 PSI.	5 PSI	19.00
IA332	421 AVND-500	0-500 PSI/0-3500 kPa	50 PSI.	5 PSI	19.00
IA333	421 AVND-30 VAC	30" - 0 Hg Vac	5"	0.5"	19.00

R25332E

PRESSURE GAUGES

- 2.5" diameter dial has dual English/metric scales
- ASME Grade B accuracy: ± 3 % first 3rd of scale, ± 2 % middle
  3rd of scale, and ± 3 % last 3rd of scale
- Corrosion resistant stainless steel case and ring, acrylic lens
- Brass internal materials
- 1/4" NPT bottom connection only
- Rated for -20 to 60 °C and pressure steady at 75 % f.s.

IA285

Ø 2.28 [60]   1.25 [31.8]

2.28 [60]

0.56 SQ. [14]   0.50 [12.7]

1/4 NPT
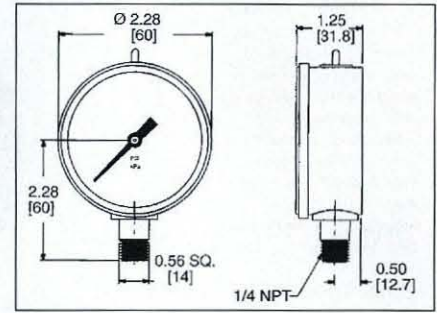
REED

Model No.	Mfg. No.	Dial Ranges	Price/Each
IA280	LVBNA-30HG	0-30" Hg Vac.	8.00
IA281	LVBNA-30	30" Hg Vac to 30 PSI	8.00
IA282	LVBNA-15P	0 to 15 PSI/0 to 105 kPa	8.00
IA283	LVBNA-30P	0 to 30 PSI/0 to 210 kPa	8.00
IA284	LVBNA-60P	0 to 60 PSI/0 to 420 kPa	8.00
IA285	LVBNA-100P	0 to 100 PSI/0 to 700 kPa	8.00
IA286	LVBNA-160P	0 to 160 PSI/0 to 1120 kPa	8.00
IA287	LVBNA-200P	0 to 200 PSI/0 to 1400 kPa	8.00
IA288	LVBNA-300P	0 to 300 PSI/0 to 2100 kPa	8.00
IA289	LVBNA-400P	0 to 400 PSI/0 to 2800 kPa	8.00
IA290	LVBNA-600P	0 to 600 PSI/0 to 4200 kPa	8.00
IA291	LVBNA-1000P	0 to 1000 PSI/0 to 7000 kPa	8.00

PRESSURE GAUGES

- Stamped aluminum 2.5" diameter dial
- Polished stainless steel case
- Glass lens, pressed bezel
- Bronze tube and brass
  socket with brass movement
- 1/4" male NPT connection,
  bottom or back
- 1.6 % accuracy
- Glycerine fill provides a dampening
  effect which minimises pulsations;
  continuously lubricates gauge
  movement; and makes this gauge
  ideally suited for adverse environments

IA297

2⅝"   1⅛"

270°

2½"

2⅟₁₆"   9⁄16"

1⅛"   ⅞"

2½"
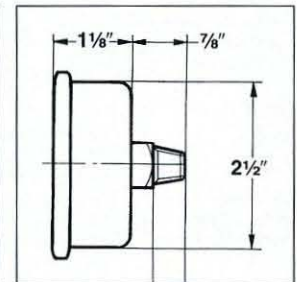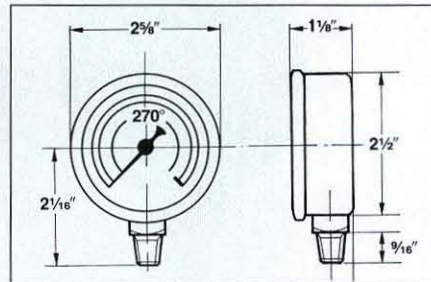
REED

Bottom Conn. Model No.	Mfg. No.	Price /Each	Back Conn. Model No.	Mfg. No.	Price /Each	Compound Scale Dial Ranges
IA292	AVNC-30HG	20.00	IA309	AHNC-30HG	25.00	30" Hg-0" Vac.
IA293	AVNC-30	20.00	IA310	AHNC-30	25.00	30" Hg-0-30 PSI
IA294	AVNC-15P	20.00	HX508	AHNC-15P	25.00	0-15 PSI/0-100 kPa
IA295	AVNC-30P	20.00	IA312	AHNC-30P	25.00	0-30 PSI/ 0-200 kPa
IA296	AVNC-60P	20.00	IA313	AHNC-60P	25.00	0-60 PSI/0-400 kPa
IA297	AVNC-100P	20.00	IA314	AHNC-100P	25.00	0-100 PSI/0-700 kPa
IA298	AVNC-160P	20.00	IA315	AHNC-160P	25.00	0-160 PSI/0-1100 kPa
IA299	AVNC-200P	20.00	IA316	AHNC-200P	25.00	0-200 PSI/0-1400 kPa
IA300	AVNC-300P	20.00	IA317	AHNC-300P	25.00	0-300 PSI/0-2100 kPa
IA301	AVNC-400P	20.00	IA318	AHNC-400P	25.00	0-400 PSI/0-2800 kPa
IA302	AVNC-600P	20.00	IA319	AHNC-600P	25.00	0-600 PSI/0-4200 kPa
IA303	AVNC-1000P	20.00	IA320	AHNC-1000P	25.00	0-1000 PSI/0-7000 kPa
IA304	AVNC-1500P	20.00	IA321	AHNC-1500P	25.00	0-1500 PSI/0-10,500 kPa
IA305	AVNC-2000P	20.00	IA322	AHNC-2000P	25.00	0-2000 PSI/0-14,000 kPa
IA306	AVNC-3000P	20.00	IA323	AHNC-3000P	25.00	0-3000 PSI/0-21,000 kPa
IA307	AVNC-5000P	20.00	IA324	AHNC-5000P	25.00	0-5000 PSI/0-35,000 kPa
IA308	AVNC-6000P	20.00	IA325	AHNC-6000P	25.00	0-6000 PSI/0-42,000 kPa

R25333E

DIGITAL PRESSURE GAUGES

- ±0.5% full scale accuracy
- 4-digit digital display eliminates parallax errors
- Battery powered with auto-shut off
- 2000-hour battery life
- 4-button key pad allows easy access to features
- Peak and Valley function
- Tare or auto zero
- Selectable engineering units
- Display backlight

SPECIFICATIONS:

Service:	Liquids and compatible gases
Wetted Materials:	316L SS
Accuracy:	0.50% f.s. ± 1 LSD @ 32 to 130°F; ±2% f.s. @ 10°F; ±5% f.s. @ 0°F
Pressure Limits:	2000 PSI (**IA431**); 7500 PSI (**IA383**)
Temp. Limits:	0 to 130°F (-18 to 55°C)
Thermal Effect:	70-130°F: 0.016%/°F; 32-70°F: 0.026%/°F; 10-32°F: 0.09%/°F; 0 -10°F: 0.50%/°F
Power Supply:	(2) "AAA" batteries
Process Connection:	1/4" male NPT
Dimensions:	3.00" O.D. x 1.90" deep
Weight:	8.8 oz (275 g)

IA383

Dwyer

Model No.	Mfg. No.	Description	Price/Each
IA431	DPG-009	Digital Pressure Gauge, 1000 PSI	327.00
IA383	DPG-011	Digital Pressure Gauge, 5000 PSI	327.00

DIGITAL PRESSURE GAUGES

- Economical, digital pressure gauge for compatible liquids
- Selectable engineering units
- 1% accuracy

SPECIFICATIONS:

Service:	Compatible liquids and gases
Accuracy:	± 1.0% f.s. (includes linearity, hysteresis, repeatability)
Temperature Limits:	30 to 120°F (-1 to 49°C)
Thermal Effect:	0.05% f.s./°F
Pressure Limits:	2X pressure range. Vacuum range max. pressure is 30 PSIG
Process Connection:	1/4" male NPT
Housing Materials:	ABS plastic
Wetted Materials:	316 SS
Display:	4-digit LCD
Power Supply:	9 V alkaline battery (included)
Dimensions:	2.62" O.D. x 1.52" deep
Weight:	5.6 oz (160 g)

IA430

Dwyer

Model No.	Mfg. No.	Description	Price/Each
IA430	DPGW-08	Digital Pressure Gauge, 100 PSI	142.00
IA428	DPGW-09	Digital Pressure Gauge, 200 PSI	163.00
IA429	DPGW-11	Digital Pressure Gauge, 500 PSI	163.00

DIGITAL PRESSURE GAUGES

- Economical, digital pressure gauge for air and compatible gases
- Selectable engineering units
- 1% accuracy

SPECIFICATIONS:

Service:	Air and compatible gases
Accuracy:	± 1.0% f.s. (includes linearity, hysteresis, repeatability)
Temperature Limits:	30 to 120°F (-1 to 49°C)
Thermal Effect:	0.05% f.s./°F
Pressure Limits:	2X pressure range; vacuum range max. pressure is 30 PSIG
Process Connection:	1/4" male NPT
Housing Materials:	ABS plastic
Wetted Materials:	316 SS, silicone sensor
Display:	4-digit LCD
Power Supply:	9 V alkaline battery (included)
Dimensions:	2.62" O.D. x 1.52" deep
Weight:	5.6 oz (160 g)

IA425

Dwyer

Model No.	Mfg. No.	Description	Price/Each
IA425	DPGA-00	Digital Pressure Gauge, 30" Hg VAC	108.00
IA426	DPGA-06	Digital Pressure Gauge, 30 PSI	101.00
IA378	DPGA-08	Digital Pressure Gauge, 100 PSI	101.00
IA427	DPGA-10	Digital Pressure Gauge, 300 PSI	108.00

DIGITAL PRESSURE GAUGES

- High ±0.25% full scale accuracy
- 4-digit digital display eliminates parallax errors
- Battery powered with auto-shut off
- 2000-hour battery life
- 4-button key pad allows easy access to features
- Peak and valley function
- Tare or auto zero
- Selectable engineering units
- Display backlight
- Liquids and non-combustible compatible gases
- Wetted materials constructed of 316SS
- 1/4" male NPT process connection
- CE, FM approved to be intrinsically safe for Class I, Div. I, Groups A, B, C and D, for ranges up to 3000 PSI

THZ294

Dwyer

Model No.	Mfg. No.	Description	Price/Each
THZ291	DPG-102	Digital Pressure Gauge, 15 PSI	364.00
THZ292	DPG-103	Digital Pressure Gauge, 30 PSI	340.00
THZ293	DPG-104	Digital Pressure Gauge, 50 PSI	364.00
THZ294	DPG-105	Digital Pressure Gauge, 100 PSI	340.00
THZ295	DPG-106	Digital Pressure Gauge, 200 PSI	364.00
THZ296	DPG-107	Digital Pressure Gauge, 300 PSI	364.00
THZ297	DPG-108	Digital Pressure Gauge, 500 PSI	340.00
THZ298	DPG-109	Digital Pressure Gauge, 1000 PSI	340.00
THZ299	DPG-110	Digital Pressure Gauge, 3000 PSI	340.00
THZ300	DPG-111	Digital Pressure Gauge, 5000 PSI	340.00

IN-LINE FLOW METERS

- Features a unique variable-area metering design, with a spring-retained moveable piston
- Can be installed quickly in any position form vertical to horizontal, without costly flow straighteners or other special plumbing requirements
- Constructed of polysulfone and stainless steel for greater tolerance to pressure and temperature as well as chemical compatibility
- Calibrated in gpm and lpm
- 1" NPT threaded port

Model No.	Mfg. No.	Flow Range	Medium	Price/Each
HC969	621-004	0.5 - 4 gpm	Water	81.00
HC970	621-010	1 - 10 gpm	Water	81.00
HC971	621-016	1 - 16 gpm	Water	81.00
HC972	621-028	4 - 28 gpm	Water	81.00
HC973	621-104	0.5 - 4 gpm	Oil	81.00
HC974	621-110	1 - 10 gpm	Oil	81.00
HC975	621-116	1 - 16 gpm	Oil	81.00
HC976	621-128	4 - 28 gpm	Oil	81.00

HEDLAND

HC971

R29274E

IN-LINE FLOW METER

- Polysulfone meter body and adapters, stainless steel float guide, *Viton* O-ring seals, and floats of #316 stainless steel, PVC or *Teflon*MD/*Noryl* (depending on calibration)
- Both flowmeters may be ordered with brass sweat or brass threaded adapters
- Both units are also available *Specially Equipped* with Hastelloy C float guides and floats of either *Hastelloy C, Teflon*MD or PVC (depending on calibration)
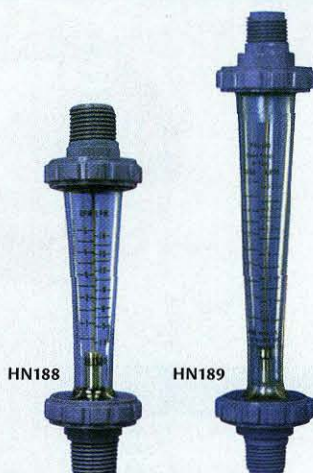
HN188 **HN189**

BLUE-WHITE INDUSTRIES

Model No.	Mfg. No.	Adapter Size	Range GPM	Range LPM	Float Material	Price /Each
HN181	F-44250LH-8	1/2" MPT	0.025-0.250	0.1-1.0	PVC	100.00
HN182	F-44375LH-8	1/2" MPT	0.1-1.0	0.4-4.0	316SS	100.00
HN183	F-44376LH-8	1/2" MPT	0.2-2.0	0.75-7.5	316SS	100.00
HN184	F-44500LH-8	1/2" MPT	0.5-5.0	1.8-18	316SS	100.00
HN185	F-44750LH-12	3/4" MPT	1.0-10	5.0-37.5	316SS	115.00
HN186	F-45375LHN-6	3/8" MPT	0.1-1.0	0.4-4.0	Noryl/Teflon®	105.00
HN187	F-45375LHN-8	1-2" MPT	0.1-1.0	0.4-4.0	Noryl/Teflon®	105.00
HN188	F-45736LHN-6	3/8" MPT	0.2-2.0	0.75-7.5	316SS	105.00
HN189	F-45736LHN-8	1/2" MPT	0.2-2.0	0.75-7.5	316SS	105.00
HN190	F-45500LHN-6	3/8" MPT	0.5-5.0	1.8-18	316SS	105.00
HN191	F-45500LHN-8	1/2" MPT	0.5-5.0	1.8-18	316SS	105.00
HN192	F-45500LHN-12	3/4" MPT	0.5-5.0	1.8-18	316SS	105.00
HN193	F-45750LHN-12	3/4" MPT	1.0-10	0.4-40	316SS	122.00

IN-LINE FLOW METER

- Equipped with half union adapter connections which greatly facilitate both installation and maintenance
- One-piece meter body of heat and chemical resistant polysulfone
- Precision textured light admitting surface on the rear of the meter body diffuses ambient light and creates a softly illuminated background which enhances meter readability
- Stainless steel float guide and float, 1" FPT polysulfone adapters, and *Viton* O-ring seals

HN199

BLUE-WHITE INDUSTRIES

Model No.	Mfg. No.	Adapter Size	Range GPM	Range LPM	Float Material	Price /Each
HN194	F-451006LHN	1" FPT	0.5-6.0	-	Teflon®	348.00
HN195	F-451001LHN	1" FPT	0.1-10	3.0-38	316SS	370.00
HN196	F-451002LHN	1" FPT	2.0-20	7.5-75	316SS	389.00
HN197	F-451003LHN	1" FPT	3.0-30	12-115	316SS	426.00
HN198	F-451004LHN	1" FPT	4.0-40	15-155	316SS	447.00
HN199	F-451002GHN	1" FPT	8-80 SCFM	-	316SS	389.00
HN200	F-451006LHKN	1" FPT	0.5-6.0	-	Teflon®	634.00
HN201	F-451001LHKN	1" FPT	1.0-10	3.0-38	Hastelloy	634.00
HN202	F-451002LHKN	1" FPT	2.0-20	7.5-75	Hastelloy	682.00
HN203	F-451003LHKN	1" FPT	3.0-30	12-115	Hastelloy	731.00
HN204	F-451004LHKN	1" FPT	4.0-40	15-155	Hastelloy	803.00

IN-LINE FLOW METER

- Cut and precision machined from solid, clear acrylic plastic bodies that permit complete visual inspection. Tapered bore is precision machined to a smooth surface that also provides perfect visibility of the indicating float
- **VFA** and **VFB** models are available with either brass or stainless steel inlet and outlet connections and are tapped for 1/8" NPT thread
- **VFC** models are provided with PVC connections tapped for 1" NPT thread
- All models have *Buna-N* O-ring seals for leak proof connections for maximum installation versatility
- All **VFA** and **VFB** models are supplied with a standard brass metering valve, stainless steel valves are available upon request
- **VFC** models, intended for use with external metering valves, are equipped with a large diameter stainless steel guide rod and a specially designed stainless steel float to provide excellent float stability at the high flow ranges
- 100 PSI maximum pressure rating
- **VFA** and **VFB** models have a maximum temperature rating of 150°F
- **VFC** models have a maximum temperature rating of 120°F

HL138

Dwyer.
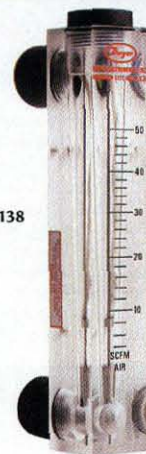
Model No.	Mfg. No.	Range	Price/Each
MODEL VFA - 2" SCALE			
HL138	VFA-1-BV	0.1-1 scfh Air	74.00
HL150	VFA-2-BV	0.2-2 scfh Air	69.00
HL246	VFA-3-BV	0.6-5 scfh Air	77.00
HL294	VFA-4-BV	1-10 scfh Air	65.00
HL354	VFA-5-BV	2-20 scfh Air	70.00
HL366	VFA-6-BV	4-30 scfh Air	74.00
HL378	VFA-7-BV	5-50 scfh Air	69.00
HL390	VFA-8-BV	10-100 scfh Air	74.00
HL402	VFA-9-BV	20-200 scfh Air	74.00
HL162	VFA-21-BV	0.06-0.5 lpm Air	74.00
HL174	VFA-22-BV	0.15-1 lpm Air	74.00
HL186	VFA-23-BV	0.6-5 lpm Air	74.00
HL198	VFA-24-BV	1-10 lpm Air	74.00
HL210	VFA-25-BV	3-25 lpm Air	74.00
HL222	VFA-26-BV	6-50 lpm Air	74.00
HL234	VFA-27-BV	10-100 lpm Air	74.00
HL258	VFA-32-BV	6-50 cc/min H_2O	74.00
HL270	VFA-33-BV	10-100 cc/min H_2O	74.00
HL282	VFA-34-BV	20-200 cc/min H_2O	74.00
HL306	VFA-41-BV	0.6-5 gph H_2O	74.00
HL318	VFA-42-BV	2-10 gph H_2O	74.00
HL330	VFA-43-BV	3-20 gph H_2O	74.00
HL342	VFA-44-BV	8-40 gph H_2O	74.00
MODEL VFB - 4" SCALE			
HL415	VFB-50-BV	0.3-3 scfh Air	99.00
HL668	VFB-91-BV	1-10 scfh Air	99.00
HL427	VFB-51-BV	2-20 scfh Air	99.00
HL439	VFB-52-BV	4-40 scfh Air	99.00
HL451	VFB-53-BV	10-100 scfh Air	99.00
HL463	VFB-54-BV	15-150 scfh Air	99.00
HL475	VFB-55-BV	20-200 scfh Air	99.00
HL656	VFB-90-BV	0.3-3 scfm Air	99.00
HL487	VFB-60-BV	100-1000 cc/min Air	99.00
HL499	VFB-65-BV	0.2-4 lpm Air	99.00
HL511	VFB-66-BV	1-10 lpm Air	99.00
HL523	VFB-67-BV	2-20 lpm Air	99.00
HL535	VFB-68-BV	3-30 lpm Air	99.00
HL547	VFB-69-BV	4-40 lpm Air	99.00
HL583	VFB-82-BV	2-30 cc/min H_2O	99.00
HL559	VFB-80-BV	0.5-12 gph H_2O	99.00
HL595	VFB-83-BV	1-20 gph H_2O	99.00
HL571	VFB-81-BV	6-60 gph H_2O	99.00
MODEL VFC - 2" SCALE (NO VALVE)			
HL679	VFC-121	2.5-25 scfm Air	194.00
HL681	VFC-122	5-50 scfm Air	194.00
HL683	VFC-123	10-100 scfm Air	194.00
HL685	VFC-131	60-700 lpm Air	194.00
HL687	VFC-132	200-1400 lpm Air	194.00
HL689	VFC-133	300-2800 lpm Air	194.00
MODEL VFC - 5" SCALE (NO VALVE)			
HL691	VFC-141	0.5-5 gpm H_2O	194.00
HL693	VFC-142	1-10 gpm H_2O	194.00
HL695	VFC-143	2-20 gpm H_2O	194.00
HL699	VFC-152	4-40 lpm H_2O	194.00
HL701	VFC-153	10-75 lpm H_2O	194.00

LEVEL SWITCHES

- Hermetically sealed reed switch contacts are actuated by magnets bonded inside the float
- Change from normally open (N.O.) to normally closed (N.C.) contacts in 10 seconds or less by reversing the orientation of the float on the stem
- Switch contact ratings are suitable for direct connection to most solid state control systems and alarm/monitoring devices
- Simple relay interfaces can be employed for higher current control applications
- Switch mounts easily at the top, bottom or intermediate levels in tanks and vessels
- Mounts directly in a 1/8" NPT fitting for interior mounting
- Where exterior mounting or access is required, special adapters are available as option
- To mount at intermediate levels, combine fittings shown with any length of pipe
- Vertical mounting is recommended (not to exceed 30° from vertical)
- Electrical Ratings:
  Model **HF660** and **HF661**: AC - 25 VA, 1.0 A, 200 V; DC - 10W, 1.0 A, 200 V;
  Model **HF659** and **HF658**: AC - 30W, 0.14 A, 220 V; DC - 0.28 A, 24 V, 0.07 A, 120 V

Model No.	Mfg. No.	Float Material	Stem Material	Max. Temp.	Max. Pressure	Min. Sp. Gr.	Deadband	Price /Each
HF660	F7-SB	Buna-N and epoxy	316SS	220 °F (105 °C)	150 PSIG (10 bar)	0.60	1/16" (2 mm)	69.00
HF661	F7-SS2	316SS	316SS	300 °F (149 °C)	450 PSIG (31 bar)	0.75	1/16" (2 mm)	69.00
HF659	F7-PP	Polypropylene and epoxy	Polypropylene	220 °F (105 °C)	100 PSIG (6.9 bar)	0.60	1/8" (4 mm)	24.00
HF658	F7-BT	Buna-N and epoxy	Polybutylene Terephthalate	220 °F (105 °C)	150 PSIG (10 bar)	0.45	1/8" (4 mm)	22.00

HF660

LIQUID LEVEL SWITCHES

- Machined from brass or stainless steel bar stock, the body is leak proof, eliminating the possibility of the process media entering the switch housing
- Float level pivots within the body when the process liquid displaces the solid polypropylene or stainless steel float
- Magnet on the opposite end of the float level controls a second magnet on the switch actuating lever located in the switch housing
- Maintenance is easy since the electrical assembly can be removed *for inspection or replacement without removing the entire switch*
- Stainless steel float lever arm and polypropylene or stainless steel float are compatible with most process fluids
- Sensitive to level changes of less than 1/2" (12 mm)
- UL/CSA listed for explosion-proof service
  - Class I, Groups A, B, C & D and Class II, Groups E, F & G
- CSA model furnished with optional junction box
- Temperature Limits: 220 °F (105 °C) max.
- Electrical Rating: One (or two) SPDT snap action micro-switch. 5 A, 125/250 VAC
- Piping Connection: 1" NPT
- Installation: Horizontal with index arrow pointing down

THZ274

THZ280

Model No.	Mfg. No.	Body	Installation	Float	Pressure Rating	Min. Sp. Gr.	Price/Each
THZ272	L6EPB-B-S-3-0-CSAW	Brass	Sidewall mounting	Solid polypropylene	1000 PSI (70 kg/cm²)	0.9	236.00
THZ273	L6EPB-B-S-3-A-CSAW	Brass	Sidewall mounting	Stainless steel - cylindrical	200 PSI (14 kg/cm²)	0.5	272.00
THZ275	L6EPB-B-S-3-C	Brass	Sidewall mounting	Stainless steel - round	350 PSI (25 kg/cm²)	0.7	289.00
THZ274	L6EPB-B-S-3-B	Brass	External float chamber	Solid polypropylene	250 PSI (18 kg/cm²)	0.9	294.00
THZ276	L6EPB-B-S-3-H	Brass	External float chamber	Stainless steel - round	250 PSI (18 kg/cm²)	0.7	333.00
THZ280	L6EPB-S-S-3-0-CSA	Stainless steel	Sidewall mounting	Solid polypropylene	2000 PSI (140 kg/cm²)	0.9	302.00
THZ277	L6EPB-S-S-3-A-CSAW	Stainless steel	Sidewall mounting	Stainless steel - cylindrical	200 PSI (14 kg/cm²)	0.5	347.00
THZ278	L6EPB-S-S-3-C-CSA	Stainless steel	Sidewall mounting	Stainless steel - round	350 PSI (25 kg/cm²)	0.7	360.00
THZ281	L6EPB-S-S-3-S-CSA	Stainless steel	External float chamber	Solid polypropylene	2000 PSI (140 kg/cm²)	0.9	437.00
THZ279	L6EPB-S-S-3-L	Stainless steel	External float chamber	Stainless steel - round	350 PSI (25 kg/cm²)	0.7	475.00

CABLE FLOAT SWITCHES

- Control the level of liquids in filling or draining reservoirs and tanks
- *Mercury-free switch is designed with an inverter* microswitch housed in a polypropylene cover
- Unit includes a counterweight to adjust the stop and start levels of pump up/pump down application
- SPST switch, 10 A @ 250 VAC resistive
- NEMA4 (IP68) enclosure rating
- Mounts vertically

THZ266

Model No.	Mfg. No.	Description	Price/Each
THZ266	CFS-2	Cable Float Switch, 2 m (6.5') cable	50.00
THZ265	CFS-10	Cable Float Switch, 10 m (32.8') cable	94.00

LEVEL SWITCHES

- Dual level switch designed for filling and draining tanks, wells, and reservoirs
- Shape and interior balance weight ensure impurities and dirt will not adhere to the surface, making it ideal for sewage and waste water applications
- Mercury-free switch is designed with an inverter microswitch housed in a polypropylene cover
- SPST switch, 10 A @ 250 VAC resistive
- NEMA4 (IP68) enclosure rating
- Mounts vertically

THZ271

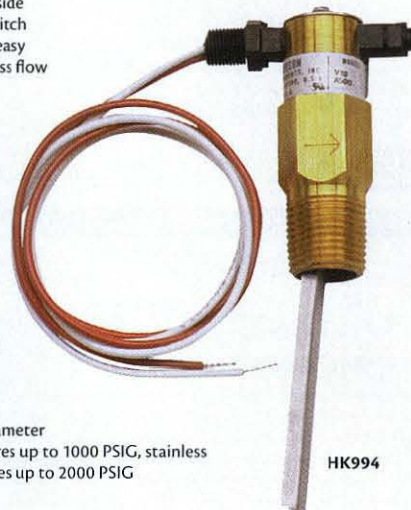| Model No.	Mfg. No.	Description	Price/Each
THZ271	FSW-6	Free-Floating Level Switch, 6 m (19.5') cable	176.00
THZ269	FSW-15	Free-Floating Level Switch, 15 m (49') cable	231.00
THZ270	FSW-30	Free-Floating Level Switch, 30 m (98') cable	328.00

FLOW SWITCHES

- Operates automatically to protect equipment and pipe-line systems against damage from reduction or loss of flow
- Universal multi-layer vane accommodates pipe sizes from 1-1/2" up to 20"
- Custom vanes are available with factory calibration
- Free swinging vane attracts a magnet within the solid metal switch body, actuating a snap switch by means of a simple lever arm
- No bellows, springs or seals to fail
- Simplicity of design and a leak-proof switch body eliminates the possibility of process fluid entering the switch compartment
- Threaded conduit enclosure cover permits easy inspection or replacement of electrical assembly without shutting down the process, or removing electrical conduit
- Unit fits directly into pipeline tee, thredolet or flange for easy installation
- Pendulum-like vane action responds accurately to fluid flow rate
- Custom vane or multi-layer vane is sensitive to low velocity flows, yet is rugged enough to withstand high flow surges
- Optional delay timer can be wired into the installation
- All units are explosion proof and listed UL and CSA for Class I, Groups C and D, Class II, Groups E, F, and G
- Switch body is one-piece milled and bored brass or 316SS
- Brass models rated for pressures up to 1000 PSIG, stainless steel models rated for pressures up to 2000 PSIG

HK996

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HK996	V4-2-U	Universal Vane Flow Switch, Brass	434.00
HL003	V4-SS-2-U	Universal Vane Flow Switch, Stainless Steel	626.00

FLOW SWITCHES

- Designed to provide an inexpensive, reliable unit to monitor the presence or absence of flow in a system
- Rugged, hermetically sealed reed switch is encapsulated in a polypropylene switch housing that fits into a standard heavy duty leak proof brass body or optional 303 stainless steel body
- Patented switch adjustment allows the user to change the switch to normally open (NO) or normally closed (NC) in the field merely by loosening two screws
- Switch housing is located outside the process media, making switch change-over or maintenance easy without interruption of process flow
- Wetted materials of brass, stainless steel and ceramic 8 magnet provide excellent chemical resistance and compatibility
- Full size, trimmable stainless steel vane is provided with a removable laminated template
- Template is calibrated for brass or ductile iron reducing tees and forged steel straight tee/bushing combinations
- Allows for field installation in pipelines from 1/2" to 2" diameter
- Brass models rated for pressures up to 1000 PSIG, stainless steel models rated for pressures up to 2000 PSIG

HK994

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HK994	V10	Mini-size Flow Switch, Brass	67.00
HM508	V10SS	Mini-size Flow Switch, Stainless Steel	91.00

FLOW SWITCH

- Industrial control switch suitable for mounting in a protected environment
- When flow stops, the vane spring moves the vane, actuating a single pole double throw switch rated at 5 A 120/250 VAC to start or stop motor, pump, engine, etc.
- Leak proof body and vane constructed of tough durable polyphenylene sulfide (equivalent to *Ryton*) which has excellent chemical resistance
- Full size trimmable vane is provided with moulded-in graduations allowing for installation in a 1" through 6" pipe
- Operating pressures are up to 150 PSIG (10 Bar) and temperatures to 212 °F (100 °C)

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HL135	V8	Flotect Flow Switch	72.00

AIR FLOW SWITCH

- Rugged, die-cast aluminum body, zinc plated with chemical conversion coating for corrosion protection, stainless steel vane and silicone rubber gasket
- SPDT snap switch
- Unit is easily field adjustable from 400 to 1600 fpm
- Mounting is fast and simple, requiring only two screws
- Vane fits 6" or larger ducts
- UL and CSA listed
- For use only with air or non-combustible, non-corrosive gases. Unit is not sealed against dust.

Dwyer.

Model No.	Mfg. No.	Description	Price/Each
HC607	530	Air Flow Switch	127.00

R25339E

INSTRUMENTS

PH PEN

- Dual displays of temperature and pH
- Display tilted at a 45° angle for increased readability
- Data hold, Max/Min, Record
- Automatic temperature compensation assures that readings are corrected for temperature offsets
- One touch calibration
- Calibration up to 3 points (pH 4.01, 7.01, 10.01)
- No tools or trimmers needed for calibration
- Replaceable pH electrode module
- Durable, waterproof housing (IP67)
- Low battery indicator
- Auto power off after 20 minutes of inactivity
- Protective cap with pocket clip
- pH range: 0.00 to 14.00 pH

REED

Model No.	Mfg. No.	Description	Price/Each
IA035	8690	Digital pH Pen	89.00

REFRACTOMETERS

BRIX REFRACTOMETERS

The Brix refractometer shows the concentration percentage of the soluble solids content (Total solids) of a sample (water solution). The soluble solids content is the total of all the solids dissolved in the water - beginning with sugar, salts, protein, acids, etc. and the measurement reading value is the value of the sum total of those.
Essentially Brix% is calibrated to the number of grams of cane sugar contained in 100 g of cane sugar solution. So, when measuring a sugar solution, the Brix% should perfectly match the actual concentration.

REED

HX351

Model No.	Mfg. No.	BRIX Range	Min. Div.	Accuracy	Price/Each
HX351	MT-010 ATC	0 - 10%	0.1%	± 0.01%	139.00
HX352	MT-018	0 - 18%	0.2%	± 0.15%	119.00
HX107	MT-032	0 - 32%	0.2%	± 0.2%	119.00
HX353	MT-062	28 - 62%	0.2%	± 0.2%	119.00
HX354	MT-082	45 - 82%	0.5%	± 0.3%	119.00
HX355	MT-090	58 - 90%	1.0%	± 0.5%	119.00

SALINITY REFRACTOMETERS

Salinity refractometers are useful for measuring the concentration of natural or artificial seawater in aquariums, holding tanks, and breeding ponds. They can also be used for controlling the saltwater concentration when preparing pickles, measuring the concentration of saltwater used in rinsing and cooking sea products.

REED

HX356

Model No.	Mfg. No.	Range	Min. Div.	Accuracy	Price/Each
HX356	MT-110 ATC	0-100 ppt Na	1.0 ppt	± 1.0 ppt	139.00
		1.000-1.070 sp.gr.	0.001	± 0.001	
HX668	MT-128	0 - 28%	0.2%	± 0.2%	352.34

BATTERY COOLANT CHECKER

It is essential to know the concentration and freezing point of anti-freeze coolants for vehicular safety. Keeping a suitable concentration of coolant prevents engine trouble and possible radiator corrosion. This tester monitors the freezing point of both ethylene glycol and propylene glycol; in addition, it indicates battery recharge level. This tester is simple to use; requiring only a few drops to provide accurate readings within seconds.
It is virtually indispensable for gas stations, service shops, cab companies, etc.

REED

HX093

Model No.	Mfg. No.	Coolant	Range	Min. Div.	Price/Each
HX093	MT-777	Propylene Glycol	-50 to 32 °F	10 °F	139.00
		Ethylene Glycol	-50 to 32 °F	10 °F	

VISCOSITY CUP

- Determine the flow time of paints, coatings, enamels, oils and other similar liquids
- Conically shaped steel cup delivers 44 cc's of liquid sample through a precision orifice
- Twelve-inch looped stainless steel handle allows the cup to be dipped by hand into a liquid container
- Stainless steel split key ring at top of handle for aligning cup in a true vertical position when conducting tests
- **Cup No. 1**: Generally used for very thin mixtures where low solids application is desired
- **Cup No. 2**: Primarily used for all mixed paints which have been reduced with solvent for application. Used by the automotive and similar industries
- **Cup No. 3/Cup No. 4**: Used for higher solids application where extra heavy films are desired
- **Cup No. 5**: Generally used for checking the viscosity of unthinned paints prior to reduction with solvent

GARDCO

HB787

Model No.	Mfg. No.	Description	Orifice Size	Range	Price/Each
HB787	VI-2101	Viscosity Cup No. 1	0.078"	31-60 sec.	254.00
HB788	VI-2102	Viscosity Cup No. 2	0.108"	19-60 sec.	254.00
HB789	VI-2103	Viscosity Cup No. 3	0.146"	13-60 sec.	254.00
HB790	VI-2104	Viscosity Cup No. 4	0.168"	12-60 sec.	254.00
HB791	VI-2105	Viscosity Cup No. 5	0.208"	10-60 sec.	254.00

PH/ORP METER

- Large, easy-to-read LCD display
- Water resistant front panel
- Data Hold function
- Sample Time: 0.4 second

MODEL HX332

- pH Range/Resolution: 0 to 14 pH/ 0.01 pH
- pH electrode must be ordered separately (see below for options)

MODEL HX335

- Range: -1999 mV to +1999 mV
- Probe included

REED

HX332

Model No.	Mfg. No.	Description		Price/Each
HX332	YK-21PH	General Purpose pH Meter		120.00
HX335	YK-23RP	ORP Meter		120.00

Model No.	Mfg. No.	Description	Range	Size	Price/Each
HX295	PE-01	Epoxy pH Electrode	0-14 pH	9.5 mm dia. x 130 mm	119.00
HX296	PE-03	Epoxy pH Electrode	0-13 pH	12.3 mm dia. x 160 mm	59.00
HX297	PE-11	Epoxy pH Electrode	0-13 pH	10.0 mm dia. x 130 mm	79.00

WATER QUALITY TESTER

- Large LCD display
- Automatic temperature compensation from 0° to 50°C
- Sampling Rate: 0.4 second
- Data Hold function
- Probe included

MODEL HX336

- Checks the condition of water filters
- Measurement Range: 0 to 1999 μS

MODEL HX337

- Measurement Range: 0 to 10% salt

HX337

REED

HX336

Model No.	Mfg. No.	Description	Price/Each
HX336	YK-30WA	Pure Water Tester	195.00
HX337	YK-31SA	Salt Meter	250.00

R25341E

PRICING

The prices shown in this catalogue are for "REFERENCE AND BUDGET PURPOSES ONLY" as of July 12, 2010, and should be used exclusively as a guide-line.

Freight charges and applicable taxes (GST, PST & HST) are extra.

In the event of a pricing or typographical error, we reserve the right to charge the correct price without prior notice. We also reserve the right to modify prices based on changing manufacturer and economic conditions.

MULTIMETERS

CALIBRATORS

THERMOMETERS
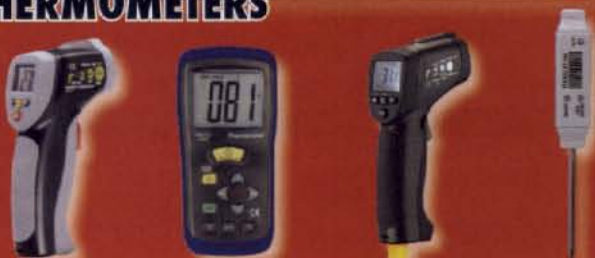
ELECTRICAL TESTERS

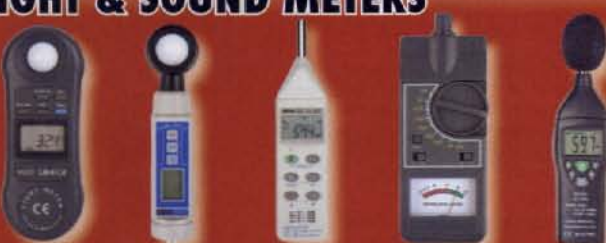## AIR VELOCITY METERS

TACHOMETERS

HYGROMETERS

LIGHT & SOUND METERS

CLAMP METERS

MISCELLANEOUS

REED PRECISION INSTRUMENTS FOR SAFETY & MAINTENANCE